Operating Guide | **Warranty**

Model numbers | C27V28, C32V28, C36V28 | **Direct View HDTV Monitors**

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zenith

RECORD YOUR MODEL NUMBER

The model and serial number of your Multimedia™ TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

Model No._____ Serial No. _____

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.
ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION: FCC Part 15

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 68

- This product complies with Part 68 of the FCC rules. On the back of this product is a label that contains, among other information, the FCC registration number and Ringer Equivalent Number (REN) for this product. If requested, this information must be provided to the telephone company.
- The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. Typically, the sum of the RENs should not exceed five (5). To be certain of the number of devices that may be connected to the line (as determined by the total RENs) contact the local telephone company.
- If this product causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- The telephone company may make changes to it's facilities, equipment, operations or procedures that could affect the operation of the product. If this happens, the telephone company will provide advance notice so you can make the necessary modifications to maintain uninterrupted service.
- Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission, or corporate commission for information.)
- If trouble is experienced with this product, for repair or warranty information, please contact Zenith Electronics Corporation. If the product is causing harm to the telephone network, the telephone company may request that you disconnect the product until the problem is resolved.

COMPLIANCE: The responsible party for this product's compliance is:
Zenith Electronics Corporation, 201 James Record Road, Huntsville, AL 35824, USA • Digital TV Hotline: 1-800-243-0000.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

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IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories, Carts, and Stands

Do not place this product on a slippery or tilted surface or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power Cord Polarization

This product is equipped with a polarized alternating current power plug (a plug havind one blade wider than the other). This plug will fit into the power outlet only one way. This plug is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

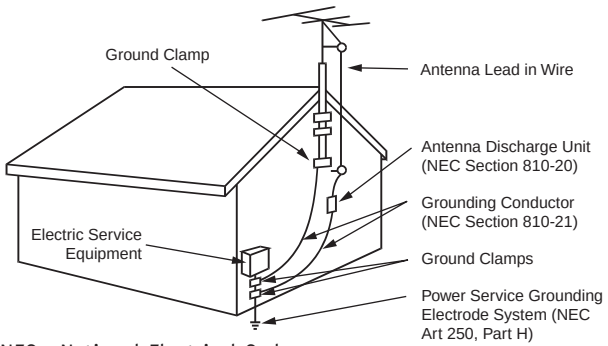
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

25. Telephone Line Cord

CAUTION: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.

Table of Contents

Read the information below, then turn to page 7 to hook up your Entertainment Machine™

Step 1. Hook up external equipment and antenna or cable service wires to the TV. Install batteries in the remote control. After all connections have been made, plug your TV into standard household power, see pages 7 thru 16.
Step 2. Go to page 18 to EZ program the TV.
Step 3. Set up all other TV options see pages listed below.

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Note: Design and specifications are subject to change without prior notice.

Entertainment Machine™ is a registered trademark of Zenith Electronics Corporation.

Features On This Multimedia TV Include

COMPUTER INPUTS - *Hookup your computer to the TV, see page 14.*

CALLER ID - *Shows the phone number of a caller on the TV Screen, see page 43.*

GUIDE Plus+ *GOLD* system - *Programs your TV to turn on your VCR, and start/stop recording broadcasts, (if available over-the-air in your area, or provided by your cable service) see page 49.*

Lock (Parental Control) - *Restricts programs which can appear on your TV, see page 35.*

PIP - *2-Tuner Picture-in-Picture, see page 47. Adjustable PIP inset picture options, see page 41.*

Programmable Remote Control - *Remote may be programmed to control other products, see page 54.*

XDS Display - *Extended Data Service. Shows current program information, see page 40.*

EZ Features: Designed to make your viewing experience less work.
EZ Program, EZ Clock, EZ Timer, EZ Picture, EZ Demo, EZ Bass, EZ Sound, EZ SoundRite, EZ Mute.

For a more complete list of the features on this TV, see page 5.

VCR Plus+, C³, PlusCode, G-LINK and GUIDE Plus+ are trademarks of Gemstar Development Corporation. The VCR Plus+ system and GUIDE Plus+ systems are manufactured under license from Gemstar Development Corporation and VCR Index Systems B.V. respectively.

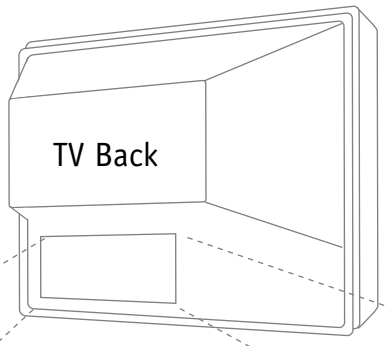
GEMSTAR IS NOT IN ANY WAY LIABLE FOR THE ACCURACY OF THE PROGRAM SCHEDULE INFORMATION PROVIDED BY THE GUIDE PLUS+ SYSTEM. IN NO EVENT SHALL GEMSTAR BE LIABLE FOR ANY AMOUNTS REPRESENTING LOSS OF PROFITS, LOSS OF BUSINESS, OR INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PROVISION OR USE OF ANY INFORMATION, EQUIPMENT, OR SERVICES RELATING TO THE GUIDE PLUS+ SYSTEM.

NOTE: VCR required for recording.

Connection Panel Overview

Use this page for reference if connecting: DVD Player, high-definition equipment, standard definition equipment, or a computer.

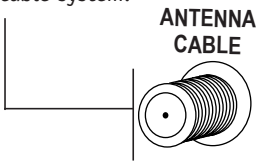
To hook up a computer, see page 14. To hookup other equipment, refer to the Table of Contents on page 5; shows pages to go to for equipment hookup options. Also, see the front connections panel hookup options on page 16.



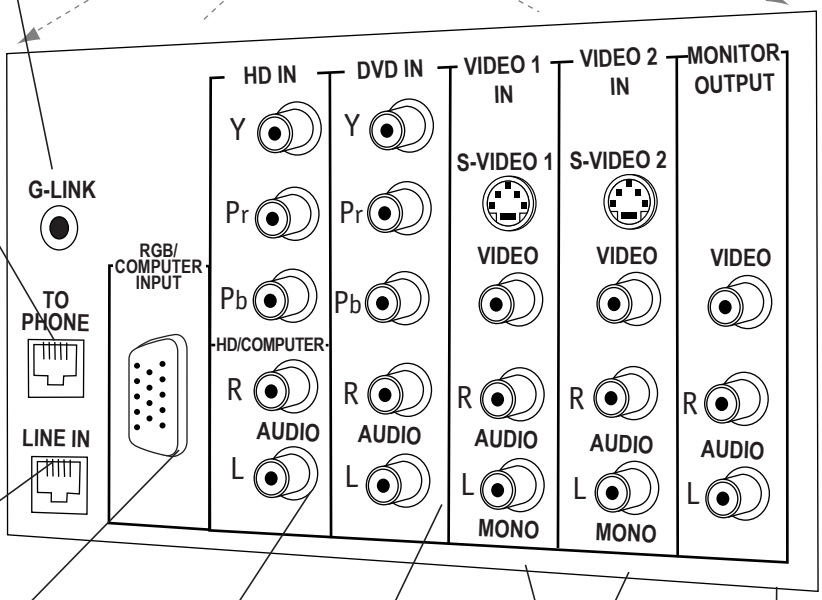
G-LINK
Connect G-LINK cable (supplied with your TV set) to make timed recordings usign the GUIDE Plus+ system and accessory VCR/Cable converter boxes.

PHONE
Connect your phone to this jack.

ANTENNA/CABLE
Use to hookup your antenna or cable system.



LINE IN
Connect your telephone line here for Caller I.D. hookup.



RGB/COMPUTER INPUT
Connect RGB/computer here.
Computer Format: SVGA 800 x 600p
Computer Format: VGA 640 x 480p
RGB Format:EDTV Set top Box 640 x 480p
RGB Format:HDTV Set top Box 1920 x 1080i

HD IN
Connect progressive scan or high-definition component video equipment here.
Progressive Scan DVD, 480p
EDTV Set top Box, 480p
HDTV Set top Box, 1080i

DVD IN
Connect a standard component video equipment or DVD player here.
DVD Player, 480i
SDTV Set Top Box, 480i

VIDEO 1 IN VIDEO 2 IN
Connect Audio/Video or S-Video equipment to these jacks.

VIDEO / R - L AUDIO OUT
Use these output jacks to connect external audio/video equipment.

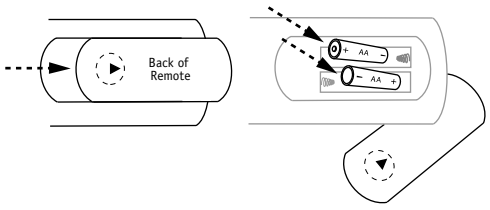
Hook Up an Off-Air Antenna

Connect an off-air antenna

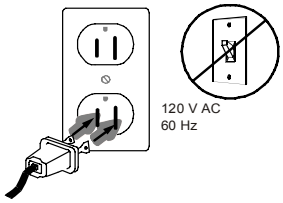
1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

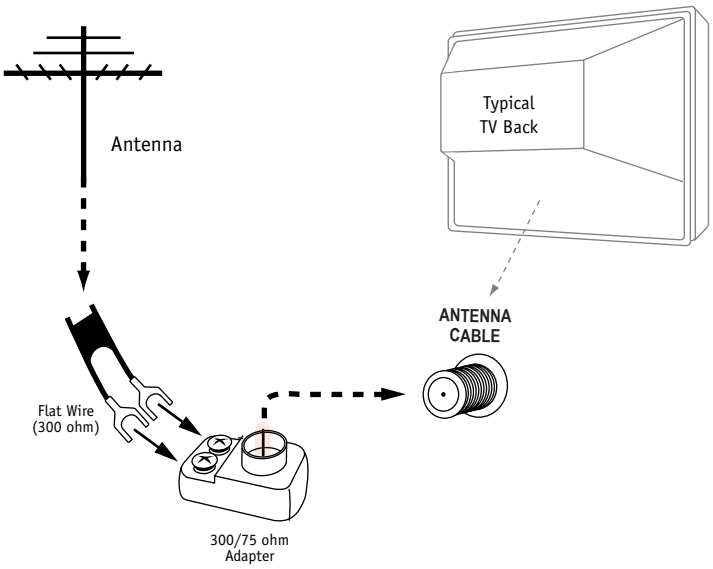
2 Connect the wire that runs from the wall directly to this jack, according to one of the diagrams to the right.

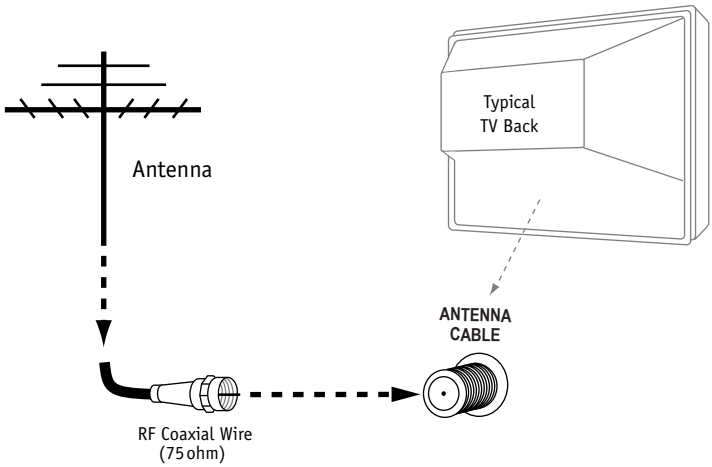
3 Remove the back of the remote and put in two "AA" batteries.



4 Plug in your TV. Do not plug it into an outlet controlled by a switch. Your Entertainment Machine is designed to operate on standard household current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power.







If you have a 75 ohm RF cable, then you don't need any adapters!

A 300 to 75 ohm adapter is not included with the TV.

Mini glossary

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

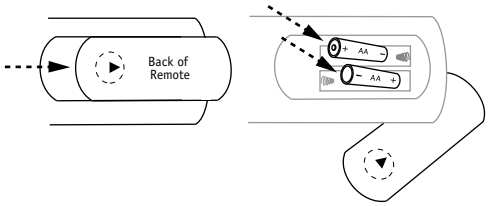
Hook Up Cable Service (CATV)

Connect cable service to your Entertainment Machine

1 Locate the Antenna/Cable jack on the back of the TV.

2 Connect the cable service wire that runs from the wall or cable box directly to this jack, according to one of the diagrams to the right.

3 Remove the back of the remote and put in two "AA" batteries.



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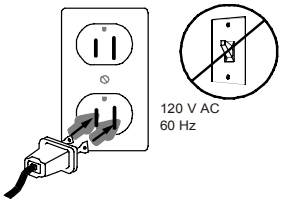
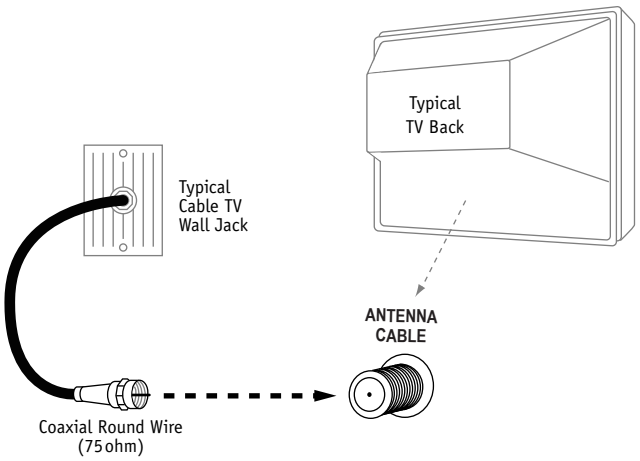
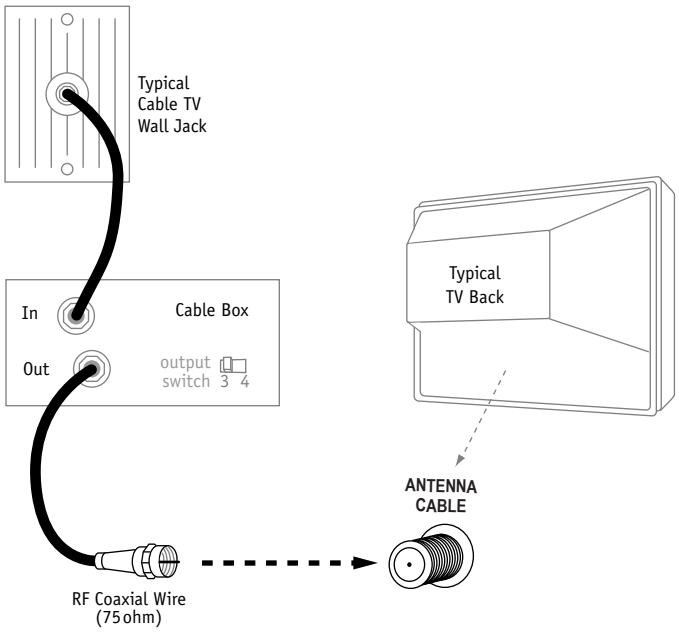


If you're using a cable box, leave the TV on channel 3 or 4 and use your cable box to change channels.

If you're using a cable box, EZ Program might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!





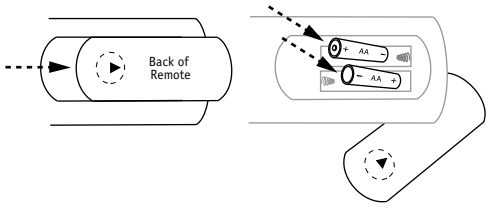
Hook Up an Off-Air Antenna and VCR

Connect your off-air antenna and VCR to your Entertainment Machine

1 Locate the Antenna In jack on the back of the VCR.

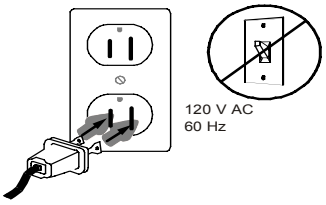
2 Connect the wire that runs from the antenna, according to the diagram to the right. Make any other connections as necessary.

3 Remove the back of the remote and put in two "AA" batteries.



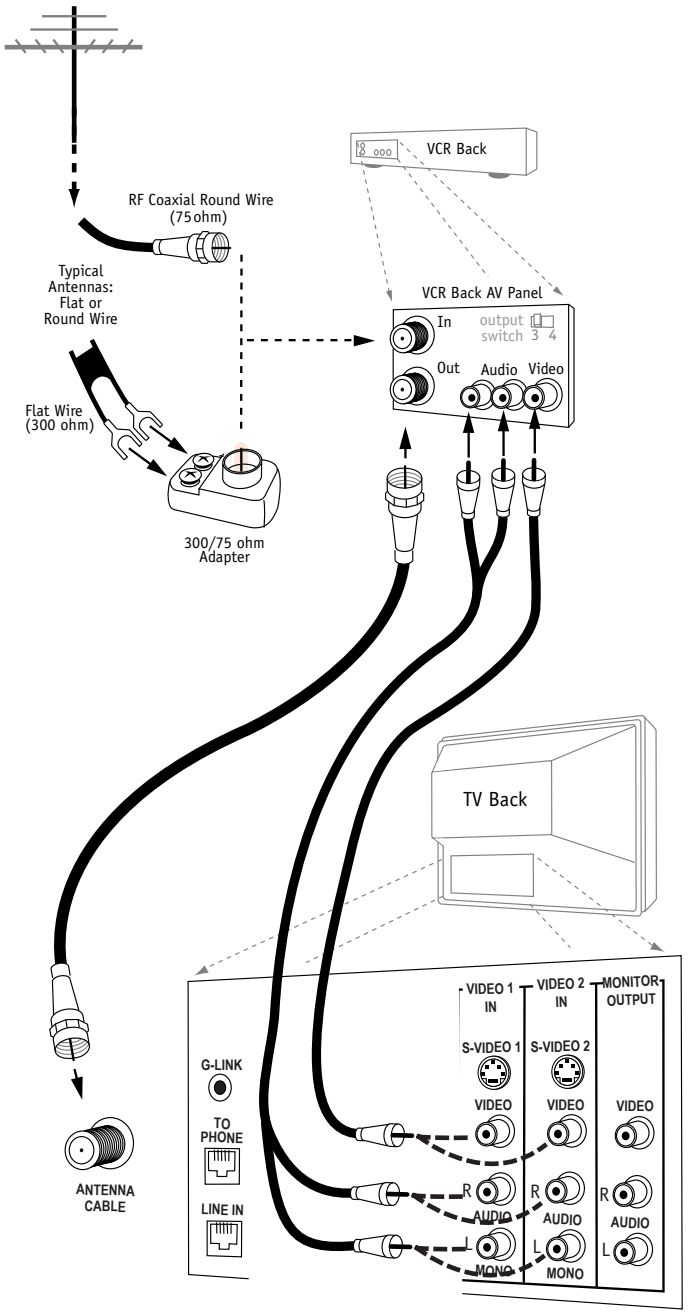
4

Plug in the TV. Do not plug it into an outlet controlled by a switch. The TV is designed to operate on standard current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power.



No adapters or A/V cables are included with the TV. See your Zenith dealer to purchase any adapters or cables.

Without A/V cables, most VCRs will not play videocassettes in stereo sound.



Connect your VCR to the
Video 1 or Video 2 set of input jacks

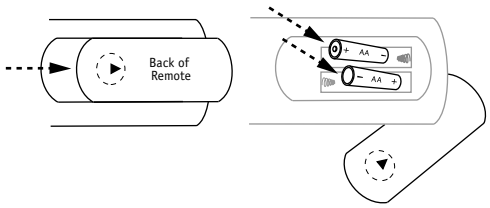
Hook Up Cable Service (CATV) and VCR

Connect Cable service and a VCR to the TV

1 Locate the Antenna/Cable In jack on the back of the VCR.

2 Connect the cable service wire that runs from the wall, according to one of the diagrams to the right. Make any other connections necessary for your setup.

3 Remove the back of the remote and put in two "AA" batteries.



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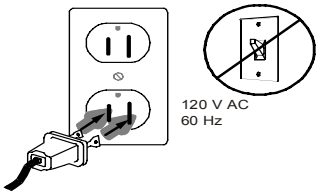
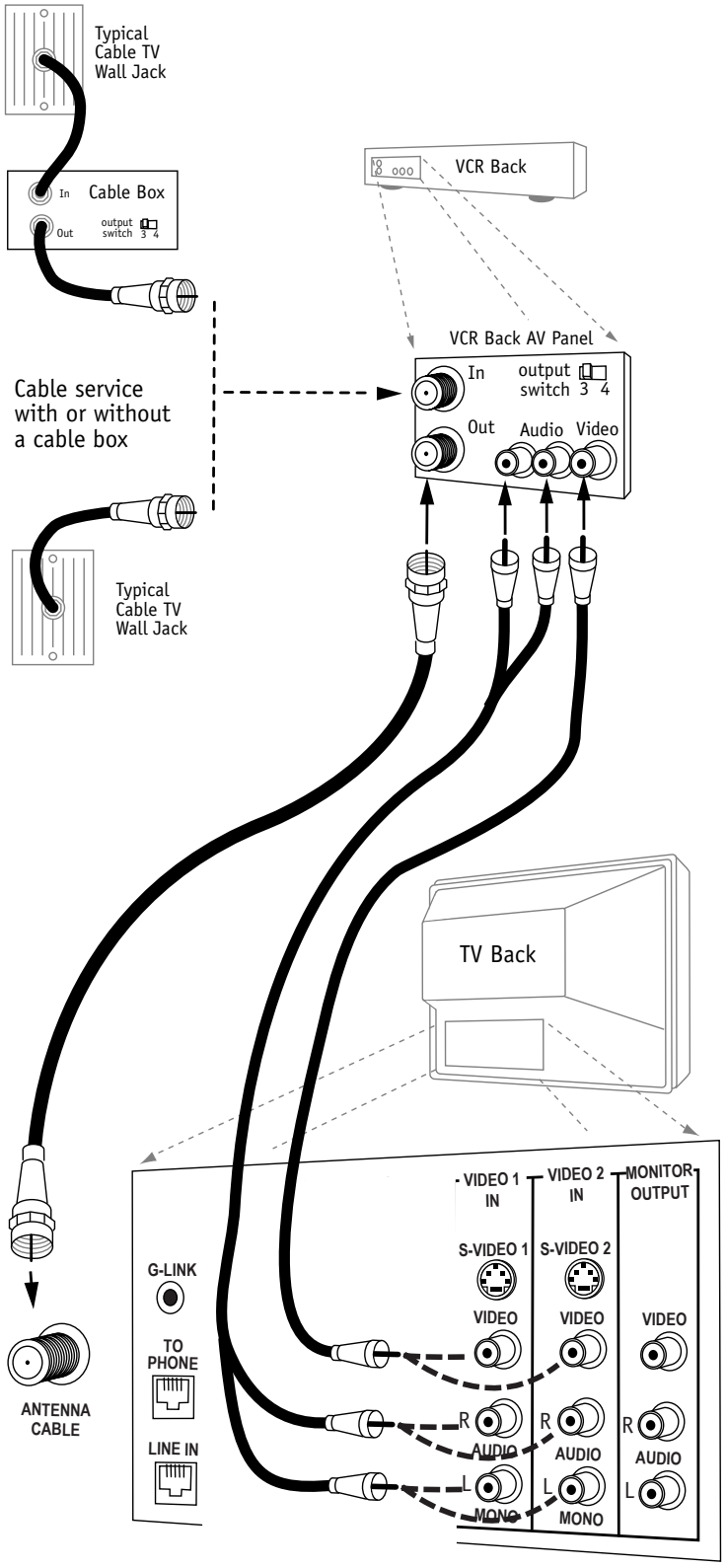


Tune both the VCR and the television to channel 3 or 4 (cable box output channel) and use the cable box to change channels.

No A/V cables are included with your TV. Without A/V cable hookups, most VCRs will not play videocassettes in stereo sound.



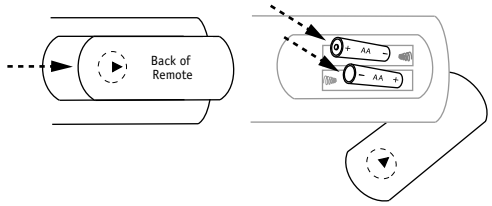
Connect your VCR to the
Video 1 or Video 2 set of input jacks

Hook Up an S-VHS VCR

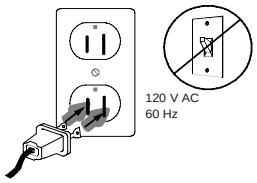
Your Zenith TV may be connected to a Super-VHS VCR through the S-Video Input located on the front or rear connection panel on your TV

1 Hook up your S-VHS VCR to your Zenith TV according to the diagram shown at the right.

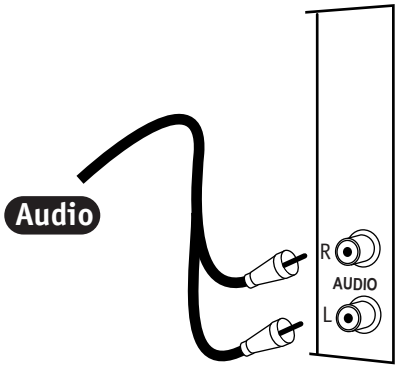
2 Remove the back of the remote and put in two "AA" batteries.



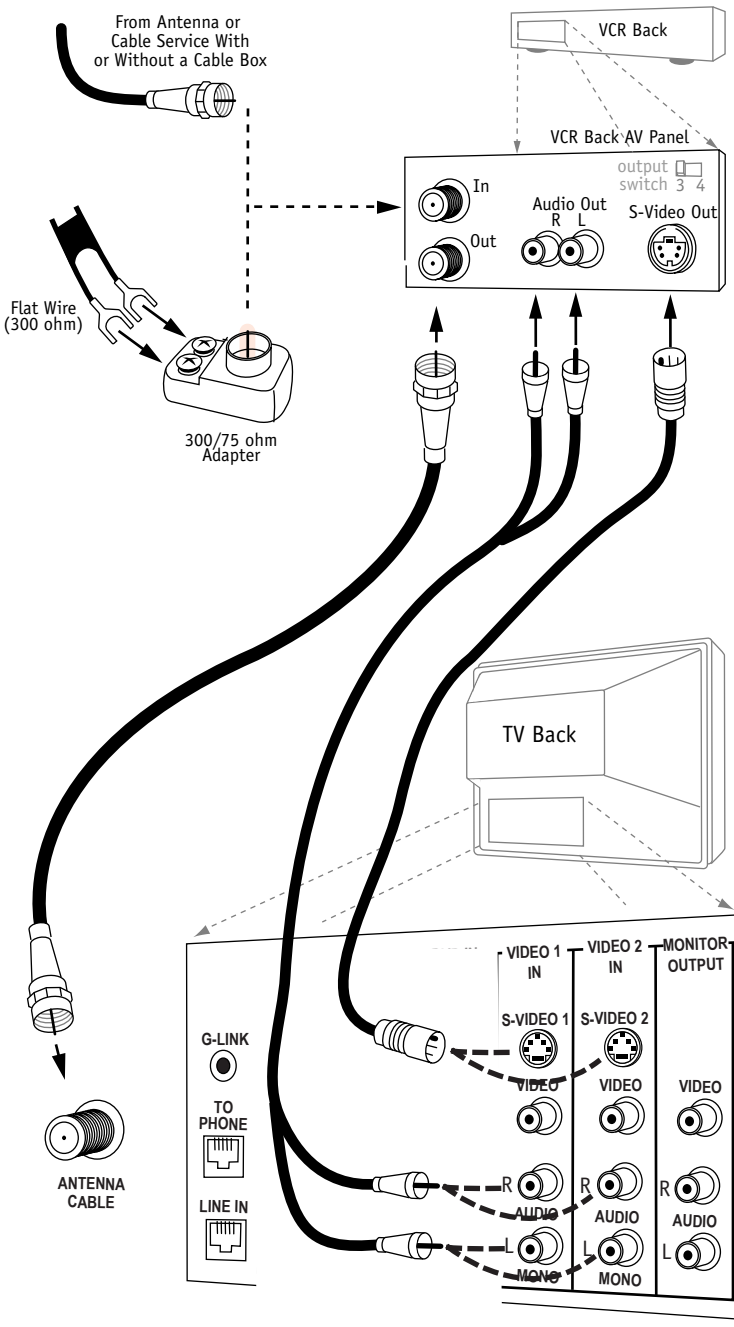
3 Plug in your TV. Do not plug it into a switched outlet. Your Zenith TV is designed to operate on standard household current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power.



Audio Audio Output: Use the Left and Right Audio Out jacks to connect an external amplifier and speakers. (Refer to the Audio Menu on page 33 for instructions on how to turn the TV's internal speakers off and on.)



Connect Audio R-L Out to your external amplifier's input jacks



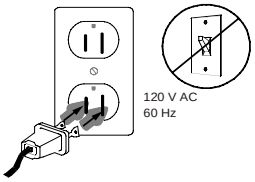
Connect your S-Video VCR to the S-Video 1 or S-Video 2 set of input jacks

Hook Up Component Video Equipment

Connecting component video equipment

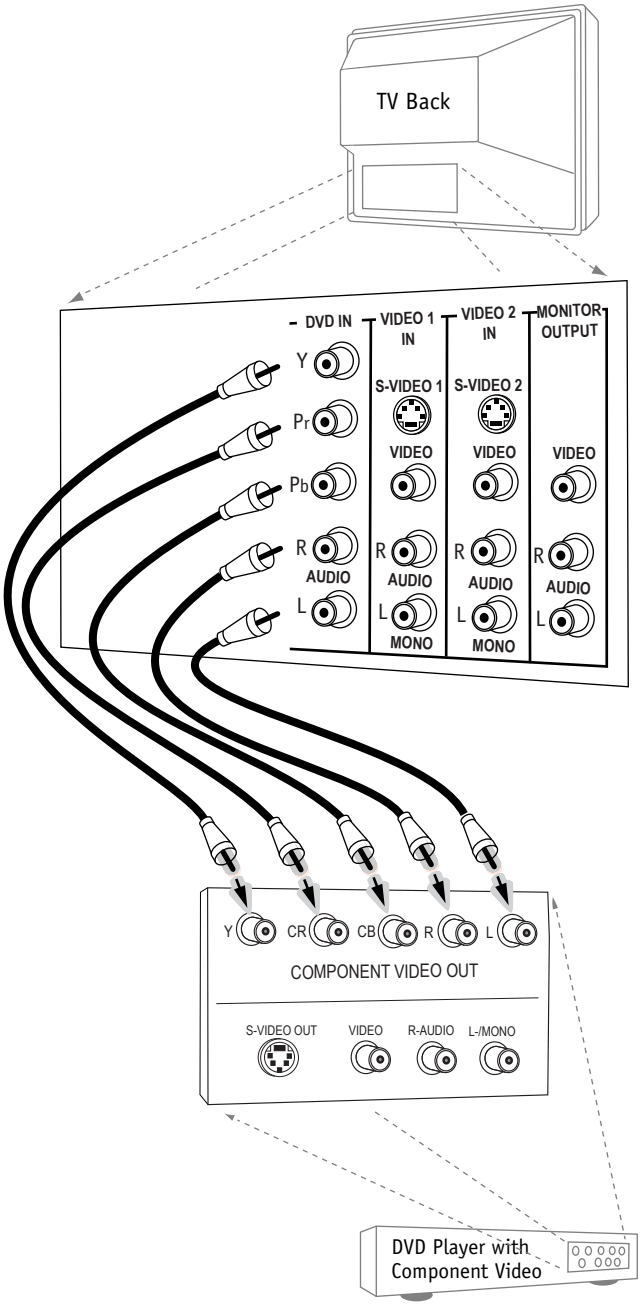
1 Make the connections as indicated. (Appearance of components may vary from those in the illustrations.)

2 Plug in your TV. Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on standard household current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC power.



3 Press POWER to turn TV on.

4 On the remote, press SOURCE repeatedly until "DVD" is displayed. Or use the Source menu to choose DVD.



Component video jacks are sometimes labeled with C_R, C_B, or P_B, P_R. In this case, connect B to B and the R to R. The "Y" jack is usually labeled "Y", connect Y to Y.

Hook Up a PC Computer

Here is the basic setup to use your TV as a computer monitor

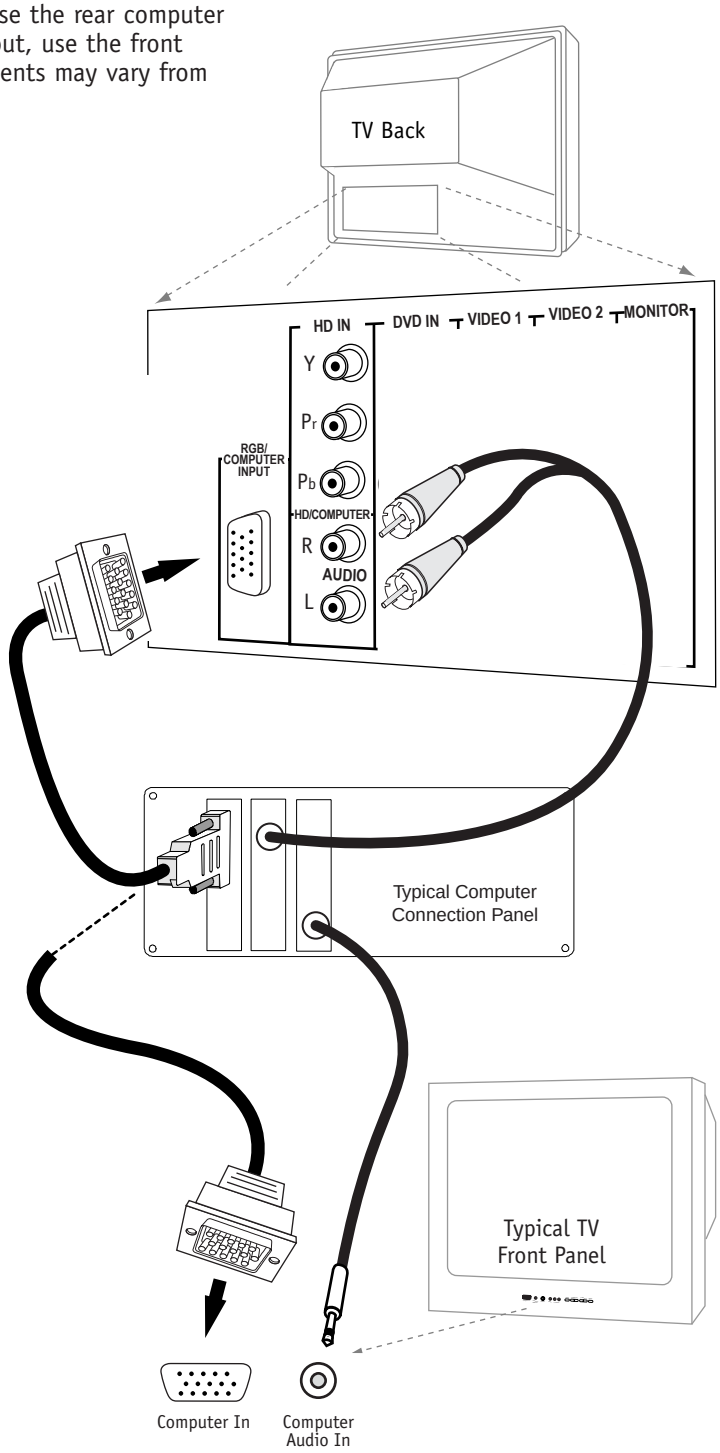
If your computer is equipped with R-L Audio out jacks, use the rear computer inputs. If your computer provides a mini-plug for audio out, use the front panel computer inputs as shown. (Appearance of components may vary from those in the illustrations.)

1 Make the connections as shown for front or rear computer hookup.

2 On the remote, press SOURCE repeatedly to select Front PC or Rear PC (the front or rear computer inputs as the source for the picture and sound.)

On some notebook models you must locate the "display toggle key" and switch the display to "external." Refer to the instructions for your computer.

You can also connect your computer to the Front computer inputs; specify Front PC in the Source menu; or press SOURCE repeatedly on the remote.



Caller ID / GUIDE Plus+™ Connections

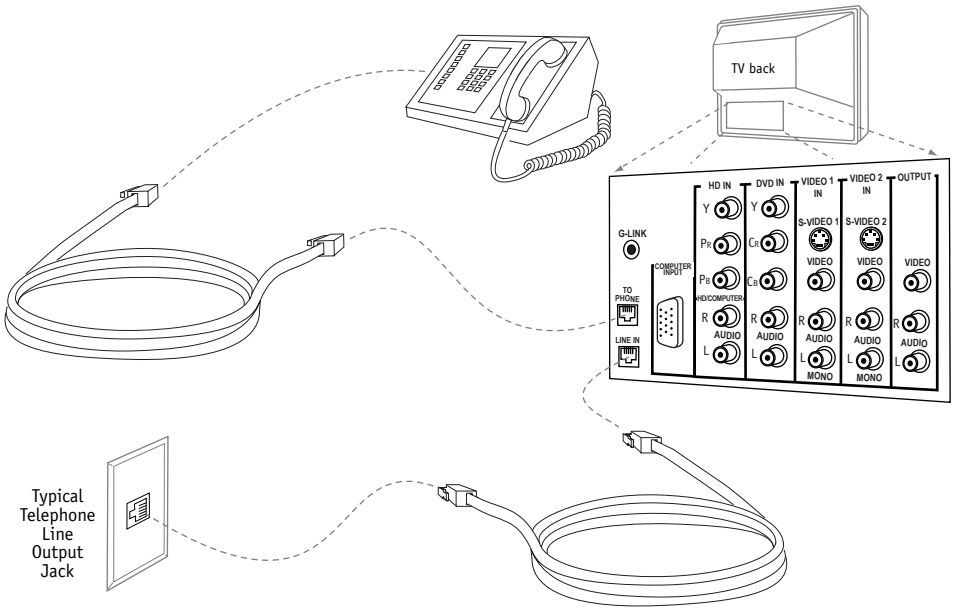
Connect your telephone to your Entertainment Machine and use your local phone service provider's Caller ID feature

Caller ID Hookup

Connect a standard telephone line cord between the telephone output jack and the LINE IN jack on the TV back connections panel.

Connect your telephone to the PHONE jack on the TV back connections panel.

Notes: Caller ID service is available from your local telephone service provider. Telephone line cords shown are not included with TV.



GUIDE Plus+ Hookup

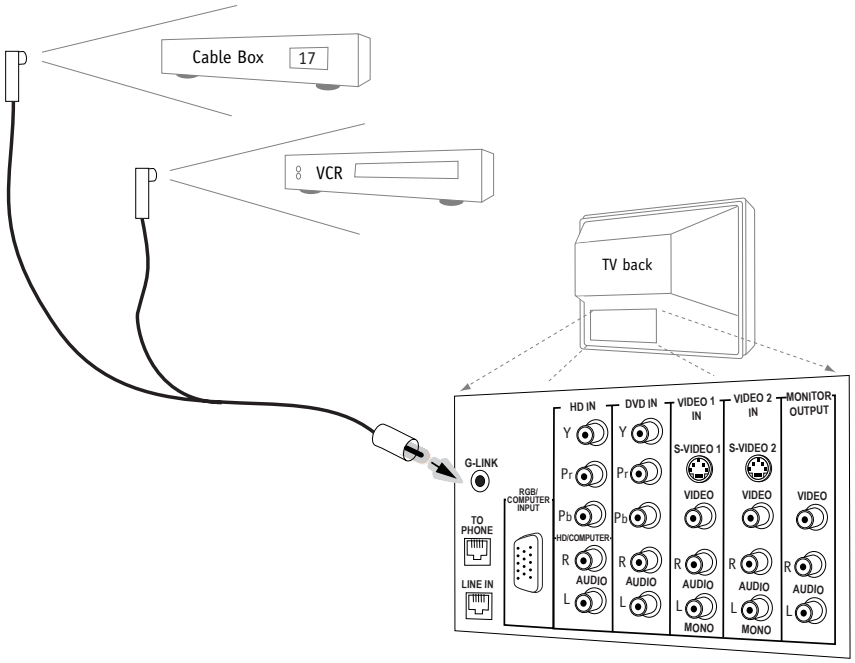
Use your Entertainment Machine to control your cable box and VCR with the GUIDE Plus+ feature

Locate the jack marked G-LINK. This jack is for the G-LINK cable. Insert the connector into the G-LINK jack. Note: If there is a "demo pin" in the jack, remove it to disable demo mode.

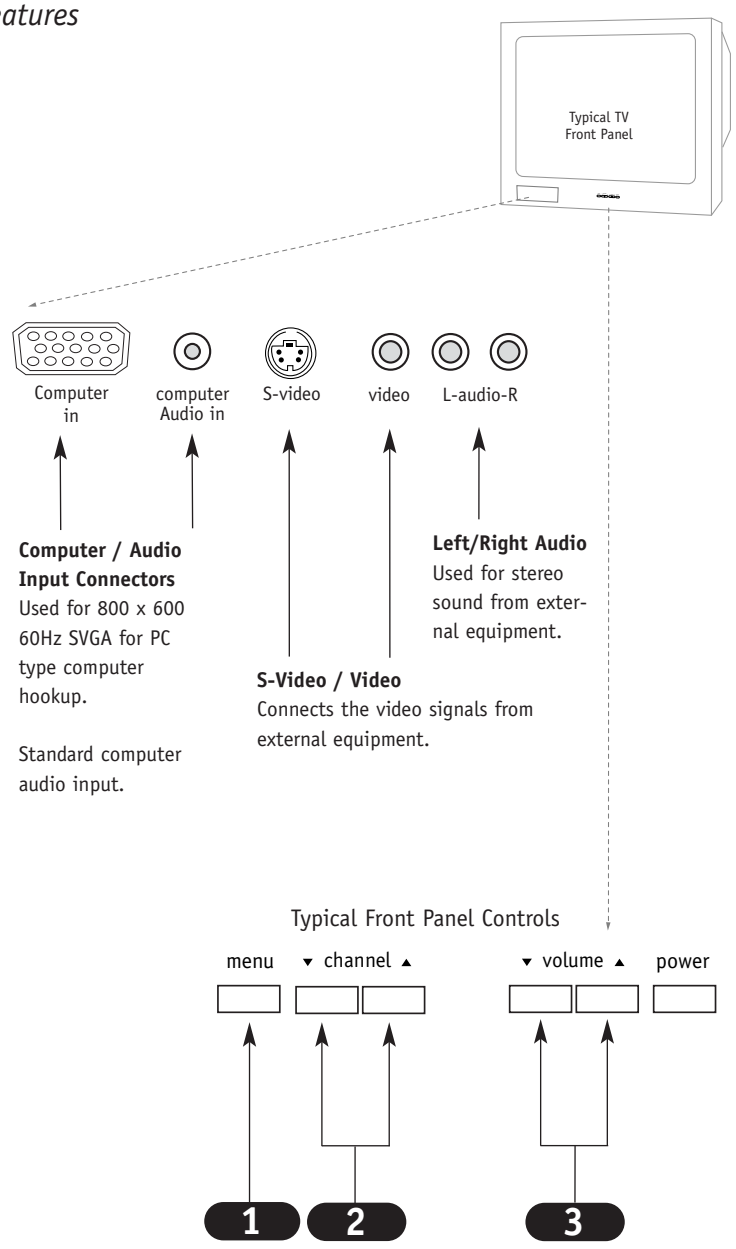
Place the other end of the G-LINK cable with the G-LINK wands in front of your VCR and Cable Box in such a way as to allow for an unrestricted path for the IR signals to be able to reach the front panels of the VCR and Cable Box.

IR=Infrared

Note: See page 21 and 48 for GUIDE Plus+ GOLD feature information and setup.



Using the front panel to operate the TV's basic features and to make temporary connections



Menu Operation

1. Press MENU to place menus on-screen.
2. Use Channel Up/Down to select menu option.
3. Use Volume Left/Right to adjust menu option.
4. Use MENU to remove menus from screen.

TV Operation

Press POWER to turn TV on and off.

Press the CHANNEL Up or Down button to select the next higher/lower channel number

Use either the VOLUME Up or Down button to adjust the sound level louder or quieter to your preference.

TV Mode Remote Key Functions

Shows remote key functions in TV mode.
See pages 58-59 for remote key functions in other operating modes

SOURCE
Selects available TV sources.

Mode Indicator Lights
Light indicates mode when keys are pressed.

MODE (TV, VCR, CABLE, DVD, HD/STB)
Switches remote operating mode to control other devices.

NUMBER KEYPAD 0 - 9
Selects channels directly and enters numerical values.
- (Digital Mode Dash)
Use as the dash when selecting digital channel numbers.

MUTE
Turns sound Off/On while picture remains.

VOL - VOLUME (+/-)
+ Increases the sound level.
- Decreases the sound level.

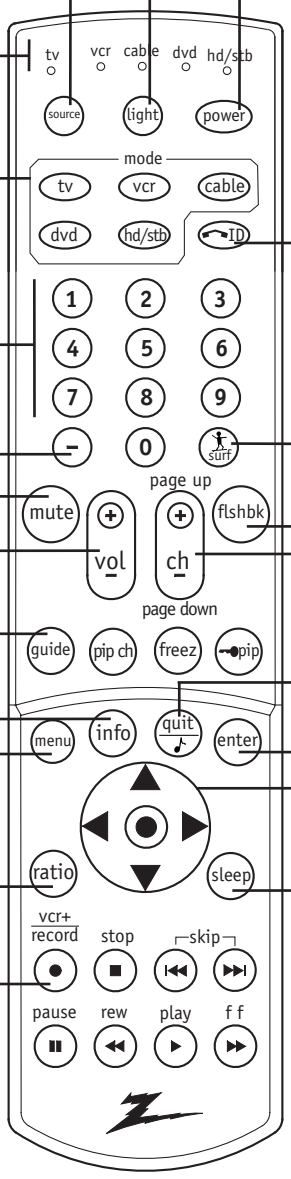
GUIDE
Turns GUIDE Plus+ system On and Off. See GUIDE Plus+ section.

INFO
GUIDE Plus+ function key. See GUIDE Plus+ section.

MENU
Press to show on-screen menus for TV mode.

RATIO
Selects different picture proportion formats.

VCR+
VCR Plus+ function key. See GUIDE Plus+ section.



remote control part number
MBR6000T
P124-00239

LIGHT
Lights keys for five seconds

POWER
Turns TV On and Off.

I.D. (Caller Identification)
Shows last ten caller's phone numbers, press again to remove list.

SURF
Turns Surf channel scanning mode On and Off; for use with Channel Up/Down.
On = Surf channels tuning.
Off = All channels tuning.

FLSHBK (FLASHBACK)
Returns to the previously tuned channel.
Selects **a.m.** and **p.m.** in the Clock and Timer menus.

CH - CHANNEL (+/ -)
Tunes to next higher/lower available channel.

CH - Page Up / Down
GUIDE Plus+ function keys. See GUIDE Plus+ section.

PIP Feature Keys (PIP CH, FREEZ, PIP Lock)
For PIP (Picture-in-Picture) operation. See PIP section.

QUIT/ ♪
Removes menu/display from screen.
♪ With no menus shown on-screen, turns front surround sound On and Off.
♪ With PIP On, switches audio between Main and PIP sources.

ENTER
Changes to selected menu option. Shows the Channel/Time display. Press after channel numbers for instant channel selection.

UP/DOWN/LEFT/RIGHT/NEXT (Menu Operation Directional Arrows and Next *action* key)
Up/Down arrows ***select,*** and Left/Right arrows ***adjust*** menu options. Press the bulls eye (shown on the menus as "Next") the ***action*** button in the center of the directional arrows for an "Enter" function, or use the ENTER key.

SLEEP (TIMER)
Selects a preset time for the TV to turn itself Off.

VCR Function Keys
RECORD, STOP, PAUSE, REW (Rewind), PLAY, FF (Fast Forward) Still operate your VCR, while remote is in TV operating mode.

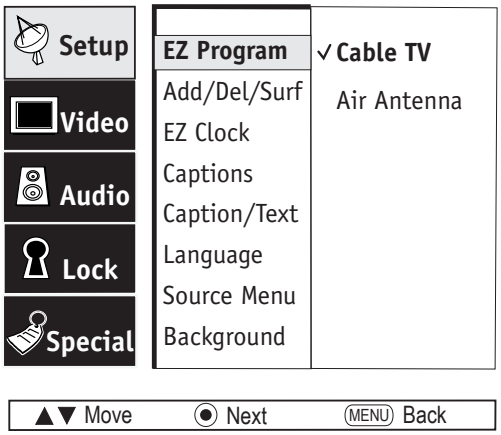
SKIP <<
Left chapter scan for DVD.

SKIP >>
Right chapter scan for DVD.

EZ Program (Channel Search)

Use EZ Program to automatically find and store in the TV's memory, all the channels in your area

Select:
CABLE TV, If you subscribe to a cable service.
AIR ANTENNA, If you receive over-the-air programs.



1 Press MENU, (if not selected, use the Up/Down arrow to choose Setup Menu,) then press ENTER/ ⦿ .

2 Using the Up or Down arrow on the remote control, select EZ Program on your screen, then press ENTER/ ⦿ .

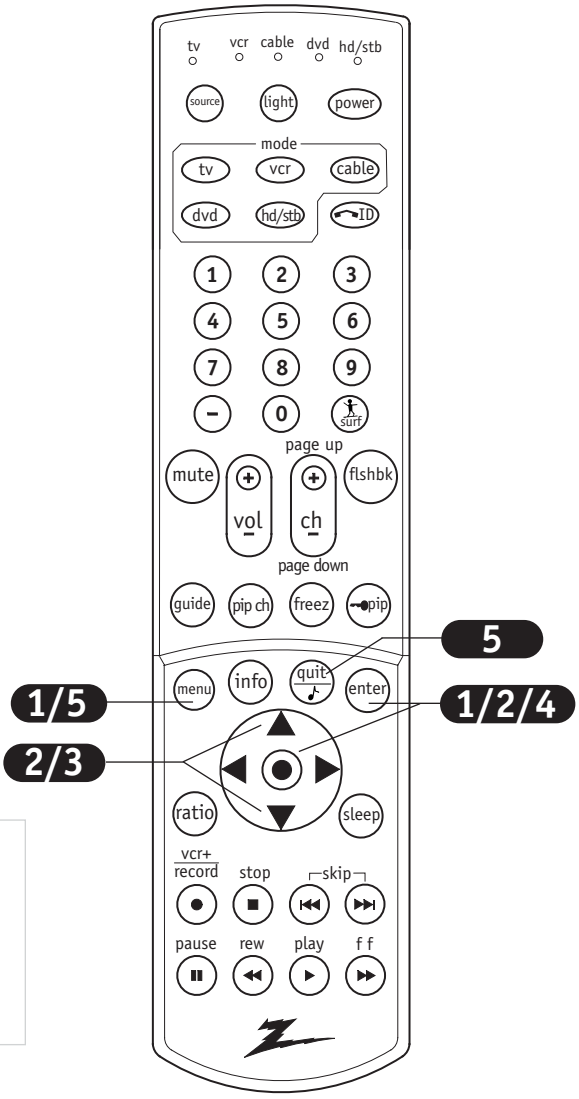
3 Using the Up or Down arrow, select either Cable TV or Air Antenna, on your screen.

4 Press ENTER/ ⦿ to begin the channel search.

5 When the channel search is complete, press MENU repeatedly until all menus are removed, or press QUIT.

EZ Program finds channels being received by the TV tuner.

Cable will not work unless you subscribe to a cable service.

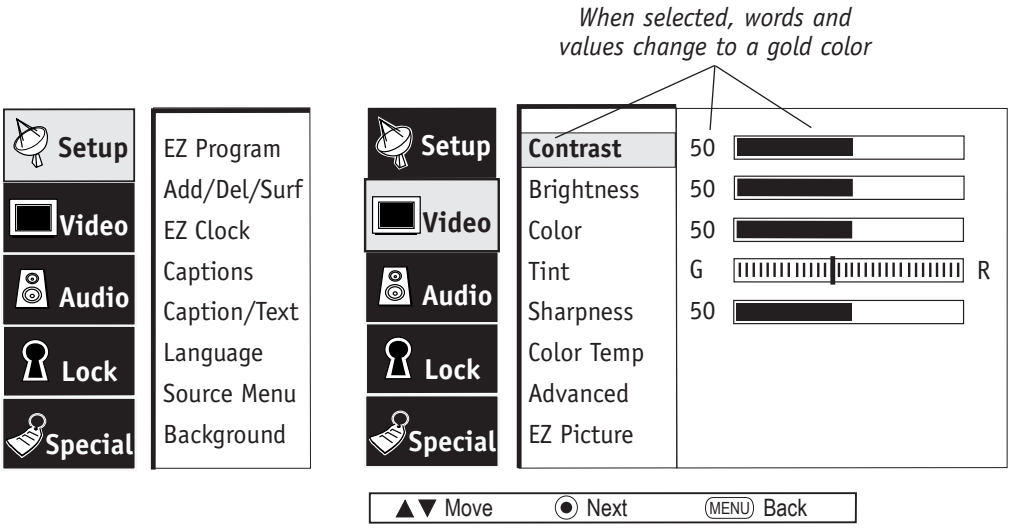


Mini glossary

Air Antenna	The device receiving the program signal sent over-the-air.
Cable TV	Your EZ Program selection, if you subscribe to a cable service.

On-Screen Menu Operation

Use the remote to access the on-screen menus



Main TV Features Menu **Video Menu**

1 Press MENU on the remote control. Use the Up or Down directional arrow to "select" or highlight *(change the text color to gold)* the name of one of the five main menus on your screen like the VIDEO menu, then press ENTER/⦿ . Note: You can also press the "⦿ " in the center of the directional arrows (shown alongside "Next" on menus) and use it for the Enter function.

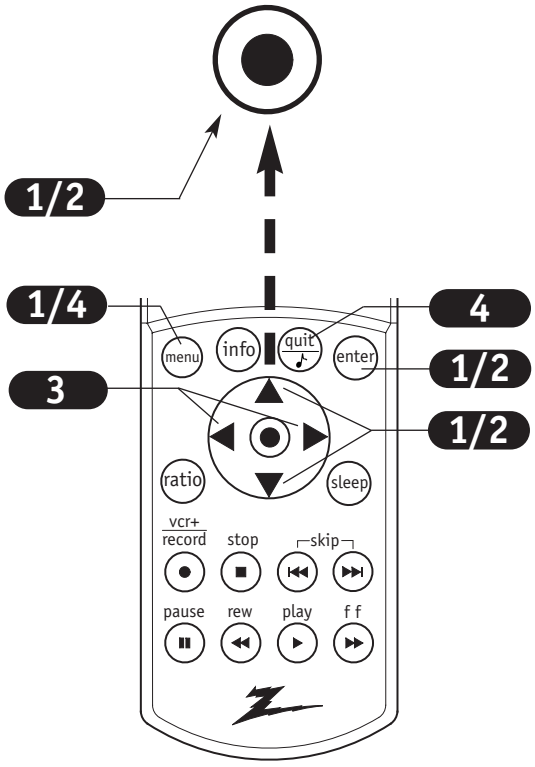
2 Use the Up or Down directional arrow to highlight an option like CONTRAST, then press ENTER/⦿ . You can select other menu options like COLOR TEMP by pressing the UP or DOWN directional arrow repeatedly.

3 Once the option is selected, in this case CONTRAST, use the RIGHT or LEFT directional arrow to adjust the setting; the larger the number the more contrast, the lower the number, the less contrast in the picture. Note: Some menu options use a checkmark to indicate setting, see page 18.

4 You can adjust the other menu options using the above procedure or if you are done changing the menu option settings:
a. Press MENU repeatedly to go back to the main menu.
b. Press QUIT to remove the menus from the TV screen.

Additional instructions are usually included on the bottom of the menu indicating which remote keys to use to move to the right, move to the left, or return to the original menu, etc.

Press the thumbstick center bulls eye to go to the "next" action, as shown on the menus.

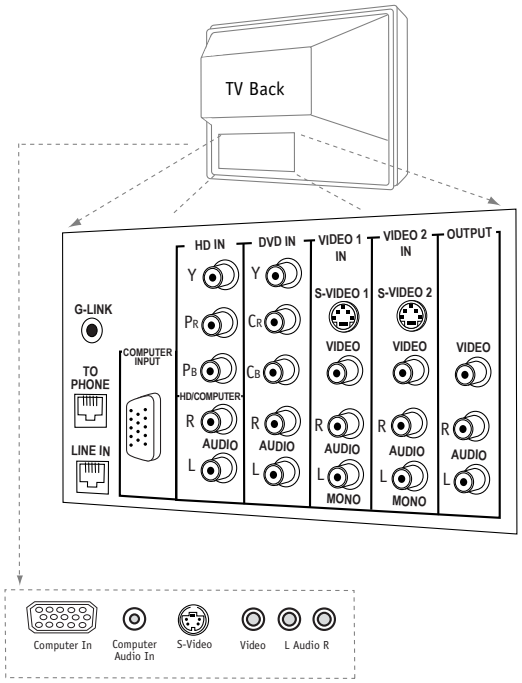


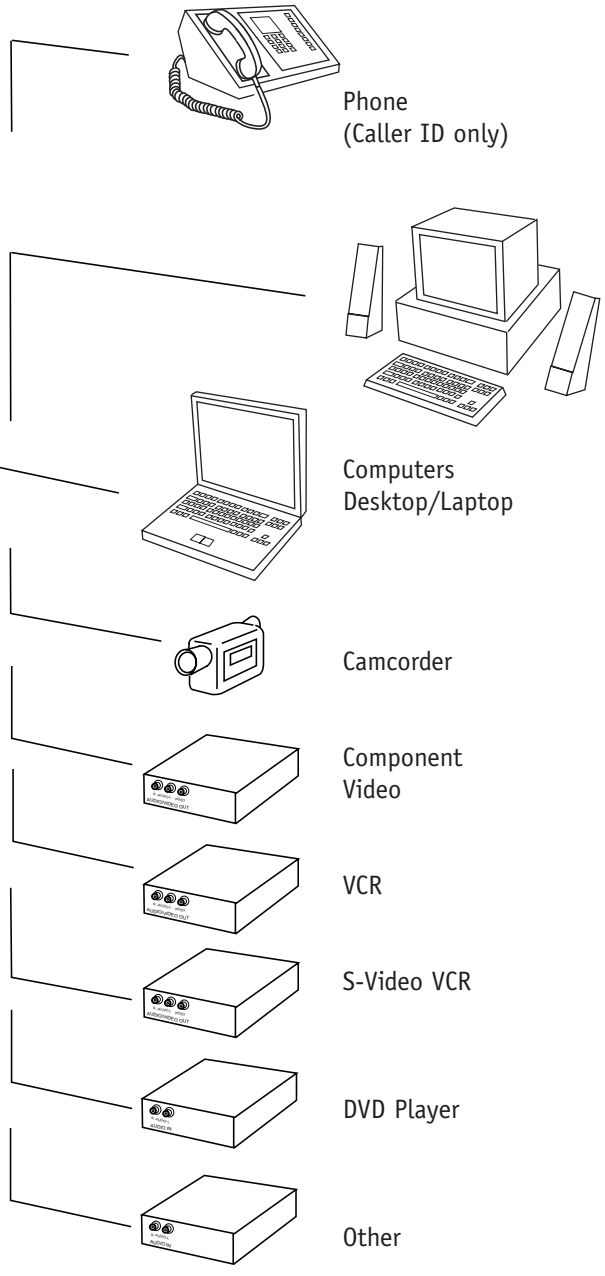
Mini glossary

MENU	On-screen displays used to set up and operate TV features.
ENTER	Action key used to make changes on the menus.
UP/DOWN	Menu UP or DOWN directional arrows used to "select" or highlight and choose menu options.
LEFT/RIGHT	Menu LEFT or RIGHT directional arrows used to "adjust" some menu settings.
QUIT	Exits menus and removes on-screen displays.

Multimedia Sources Hookup Options

Choose the source you want to see and hear





Typical Viewing Sources

1

Press SOURCE repeatedly to choose from the available viewing sources connected to the TV.

Antenna: Antenna/Cable on TV back near Jackpack, Over-the-Air Antenna or Cable service signal source.

Video 1: on TV back Jackpack,
Set of Composite Audio/Video Input jacks.

Video 2: on TV back Jackpack,
Set of Composite Audio/Video Input jacks.

F Video: on TV front Jackpack,
Set of Composite Audio/Video Input jacks.

DVD: on TV back Jackpack,
Set of Component Audio/Video Input jacks.

HD: on TV back Jackpack,
Set of Component Audio/Video Input jacks.

R-Comp: on TV back Jackpack,
Rear Computer Input Connector.

F-Comp: on TV front Jackpack,
Front Computer Input Connector.

The source equipment you intend to view should be turned on.

GUIDE Plus+ *GOLD* system
Premium electronic program guide that uses an easy to read grid guide system for channel navigation. Offers current news stories, program information, instant program tuning, scheduling to watch and record upcoming programs, and other features.
See page 49.

2-Tuner Picture-In-Picture (PIP)
The most convenient way to watch 2 channels at the same time on the TV screen. Swap the audio from the main picture to the audio from the PIP inset. Move the PIP inset around the screen. Adjust the PIP picture image to your personal preferences with the options available in the PIP menu.
See page 46.

Recent Calls

(123) 456-7890	11:39 PM	OCT 22
(123) 567-8904	8:30 PM	OCT 22
(123) 678-9045	8:33 AM	OCT 21
(123) 789-0456	10:33 AM	OCT 21
(123) 890-4567	7:33 PM	OCT 19
(123) 904-5678	9:33 AM	OCT 19
(123) 456-7890	11:33 PM	OCT 18
(123) 045-6789	8:33 AM	OCT 17
(123) 456-7890	5:33 PM	OCT 17
(123) 567-8904	6:33 AM	OCT 16

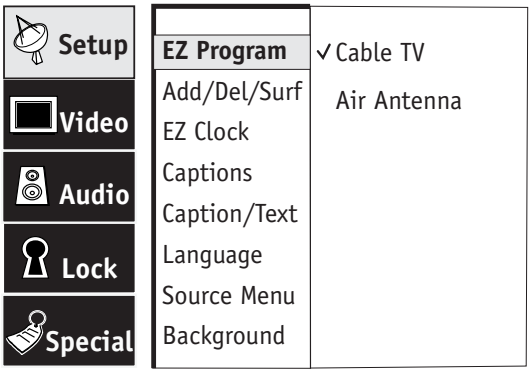
Caller ID
If you subscribe to Caller ID service from your local telephone service provider, incoming telephone call numbers can be displayed on your TV screen; assuming the caller's number is not an unlisted number. Also displays the last ten callers numbers.
See page 44.

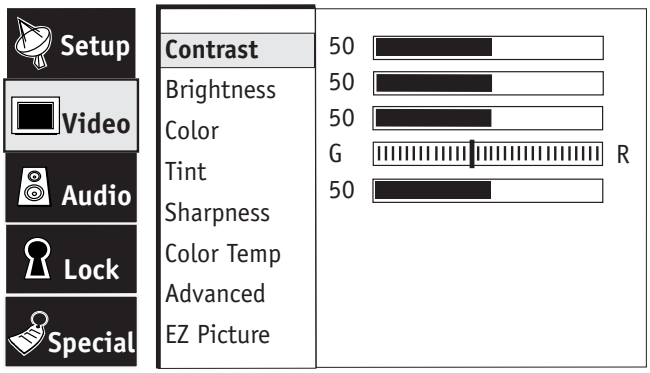
16 x 9

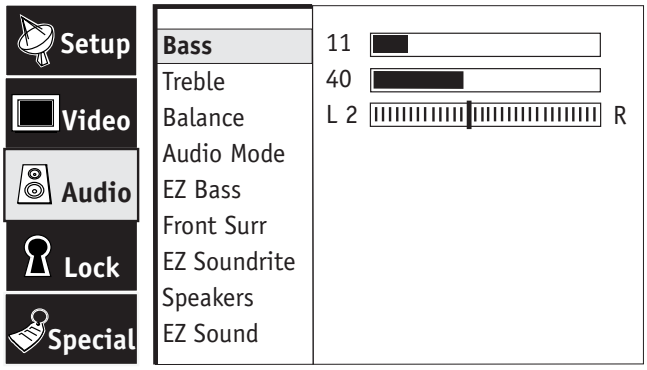
Aspect Ratio
Choose the correct picture proportion for your: Computer's image, DVD's image, Normal broadcast's image, etc.
See page 32.

Descriptions of the menus and displays

Using MENU, the Up/Down arrows, and the ENTER key and the other keys indicated on the remote, the user can access the menus and displays described below.







ON-SCREEN MENUS

SETUP 18
Sets the TV up and adjusts the basic features.

EZ Program 18
Automatically finds and stores active channels you tune to by using Channel Up/Down.

Add/Del/Surf 25
Choose which channels will appear when using Channel Up/Down. Adds favorite channels to Surf channel list.

EZ Clock 26
Sets the TV's clock.

Captions 27
Turns closed captioning On, Off, or set it to come on when the television sound is muted.

Caption/Text 27
Chooses a captioning or text option.

Language 28
Chooses the language you want the on-screen menus to appear in.

Source Menu 29
Selects which picture and sound will appear on your TV.

Background 30
Adds or removes menu background for better readability.

VIDEO 31-32
Adjusts the picture appearance to your preference.
Your options are:
Contrast, Brightness, Color, Tint, Sharpness, Color Temperature, Advanced (Aspect Ratio etc.), EZ Picture.

AUDIO 33
Customizes the sound to suit your room and taste.
Your options are:
Bass, Treble, Balance, Audio Mode, EZ Bass, Front Surround, EZ Soundrite, Speakers, EZ Sound.

LOCK 35 - 36
Allows parents to block programming based on the program's content rating or the A/V source for up to 99 hours, with the use of a password.

SPECIAL 37 - 45
Goes beyond basics and customizes your Entertainment Machine's features. Your options are:

EZ Timer 37 - 38
• Sleep Timer, Sets a time that the TV will automatically turn itself off, one time.
• On/Off Timer, Sets the time the TV will turn on and off automatically each day.

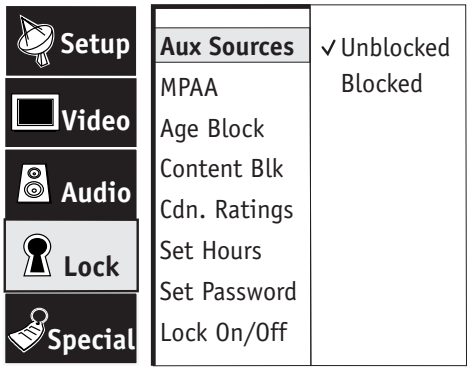
Channel Labels 39
Titles the channels with their network names (ABC, CBS, HBO, etc.).

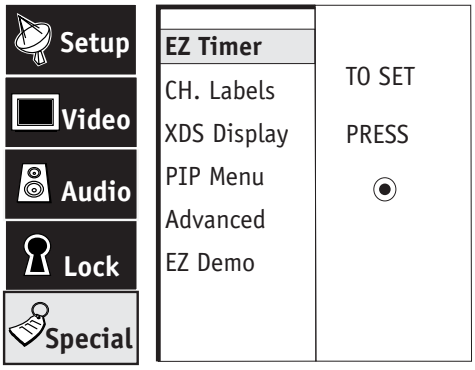
XDS Display 40
On/Off. If available, shows program information when a new channel is tuned to, or ENTER is pressed.

PIP Menu 41
Adjusts the PIP inset image appearance.

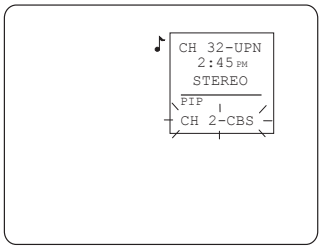
Advanced 42 - 43 - 44
Source Sense, GUIDE Plus+, Caller ID options.

EZ Demo 45
On/Off. Demonstrates the on-screen menus that control the TV's setup and operational features.





OTHER ON-SCREEN DISPLAYS *(See pages indicated.)*
- **Surf's Up** 24
- **No Surfing** 24
- **Mute/Soft Mute** 24
- **Volume Display** 24
- **Channel/Time** 23
- **Sleep Timer** 24
- **Captions/Text** 23



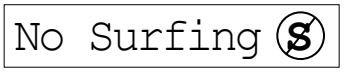
Channel/Time display shown with PIP on.

On-screen displays reveal the current status of your Entertainment Machine

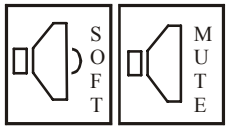
A **I.D. (Caller Identification)**
Press ID repeatedly to access the recent calls list.

B **"Surf" Channels Mode Active Display**
Press SURF to turn on Surf channels tuning mode; only channels specified as Surf channels will appear when using Channel Up/Down.

No Surfing
Press SURF to display "No Surfing!" and return to normal channel tuning mode, using Channel Up/Down.



C **Mute Display**
Press MUTE to quiet the sound.
Press MUTE again to remove the sound.
Press MUTE again to restore the sound.

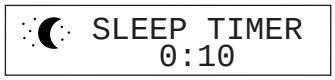


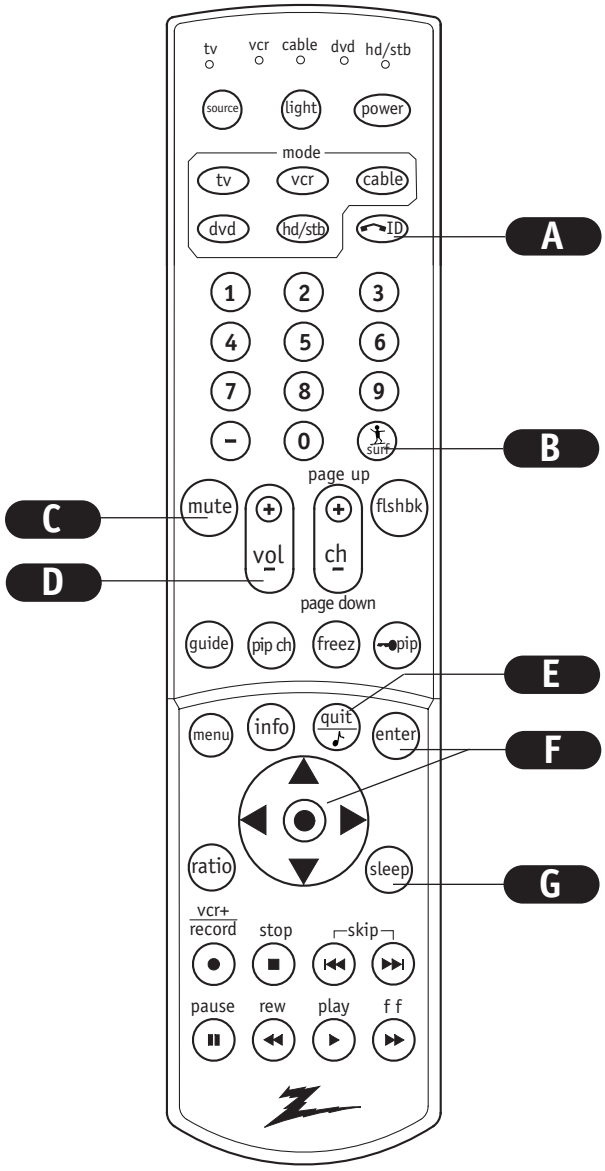
D **Volume Display**
Press the VOLUME +/- key on the remote control to see the sound level status display.

E **Remove On-Screen Displays and Menus Instantly**
Press QUIT to remove displays and menus and return to TV viewing, or wait a few moments and the displays and menus will automatically disappear from the screen.

F **Channel/Time Display** (Shown on the previous page with PIP on and the "Note" to show the audio source.)
Press ENTER or the bulls eye on the remote control to view the Channel/Time/incoming audio signal display.

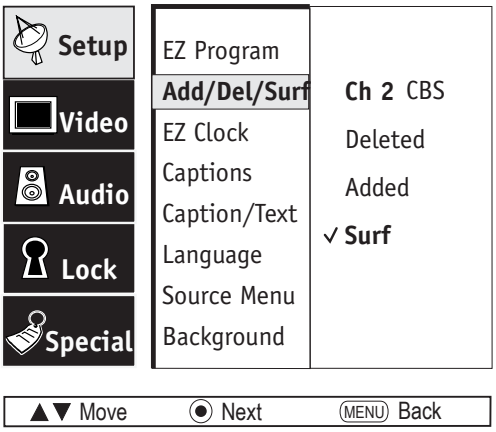
G **Sleep Timer Display**
Sleep Timer Status Display. Appears one minute before the TV automatically turns itself off.





Channel Add/Delete/Surf Setup

Customize your channel selection list: Add Channels not found by EZ Program, Delete channels you don't watch, Create a favorite channels list to "Surf" - - with Surf on, only those channels specified as Surf channels will appear when using Channel Up/Down



1 Use the NUMBER keypad to go to the Channel you want to Add, Delete, or include in the Surf channel list.

2 Press MENU, use the Up/Down arrow to select the SETUP menu, then press ENTER/ ⦿ .

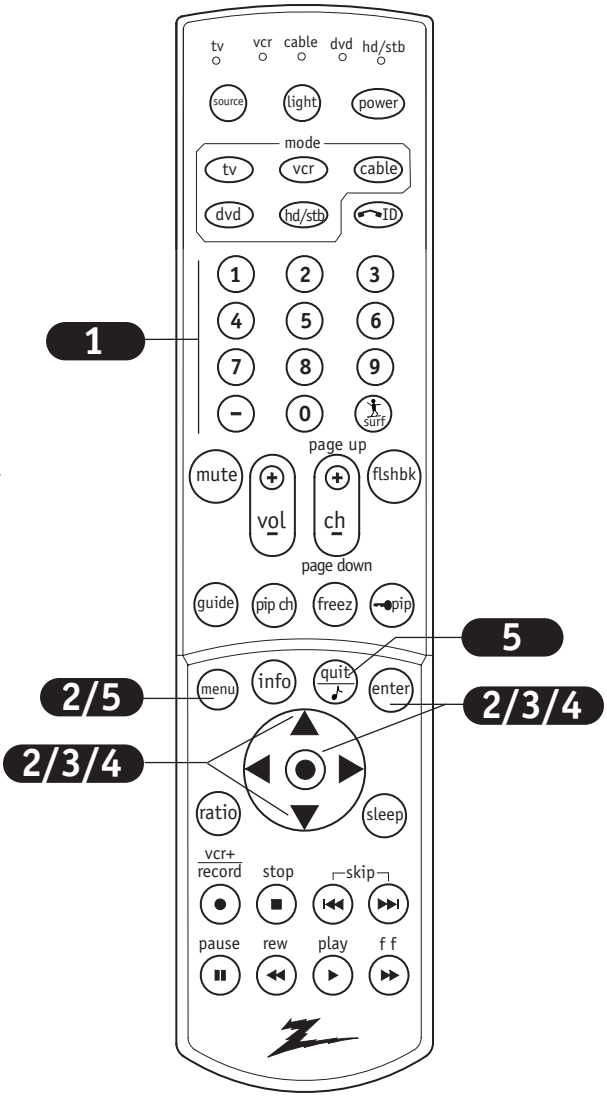
3 Use the Up/Down arrow to highlight the Add/Del/Surf option, then press ENTER/ ⦿ .

4 Use the Up/Down arrow to pick ADDED, DELETED, or SURF; move the checkmark next to the option, then press ENTER/ ⦿ .

5 Use MENU to go back to the SETUP menu. Press QUIT to remove menu when finished or go to another channel you want to add or delete by using the NUMBER keypad to select it and repeat from Step 3.

If you've deleted a channel, it isn't gone for good. Just select it using the NUMBER keypad on the remote, or add it later.

"Surf" channels are also automatically "Added."

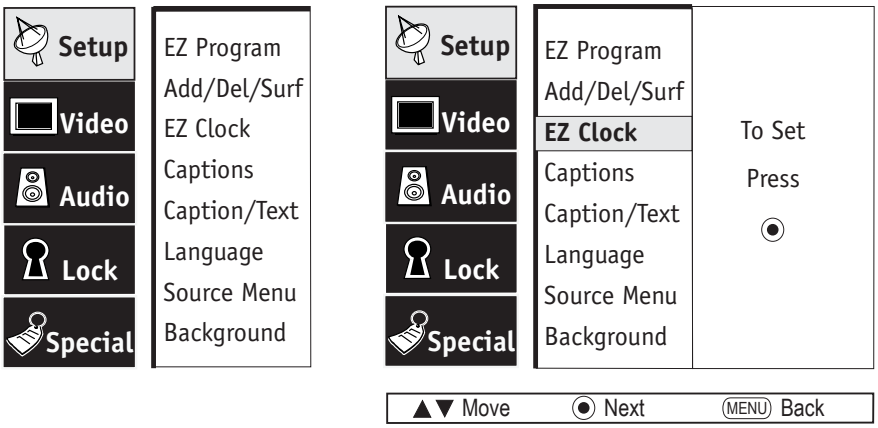


Mini glossary

ADDED	Includes new channels to the channel list that you'll scroll through when using Channel Up/Down.
DELETED	Removes channels that you don't watch from the channel list you'll scroll through using Channel Up/Down.
SURF	Adds your favorite channels to the Surf channel list. Press SURF, channels you specify as Surf channels will be the only ones to appear when you use Channel Up/Down. Press SURF to turn Surf off, (No Surfing!) and return TV to normal channel selection mode.

Set the Clock

Set the clock yourself or have the TV do it for you



1 In the Setup menu with the EZ Clock option highlighted, press ENTER/◉ to go to the EZ Clock Menu.

2 Use the Select UP or DOWN arrows, the Adjust LEFT or RIGHT arrows, and the NUMBER keypad to set the clock menu options. As indicated on the menu, use FLASHBK to set AM or PM.

EZ Clock Menu Options

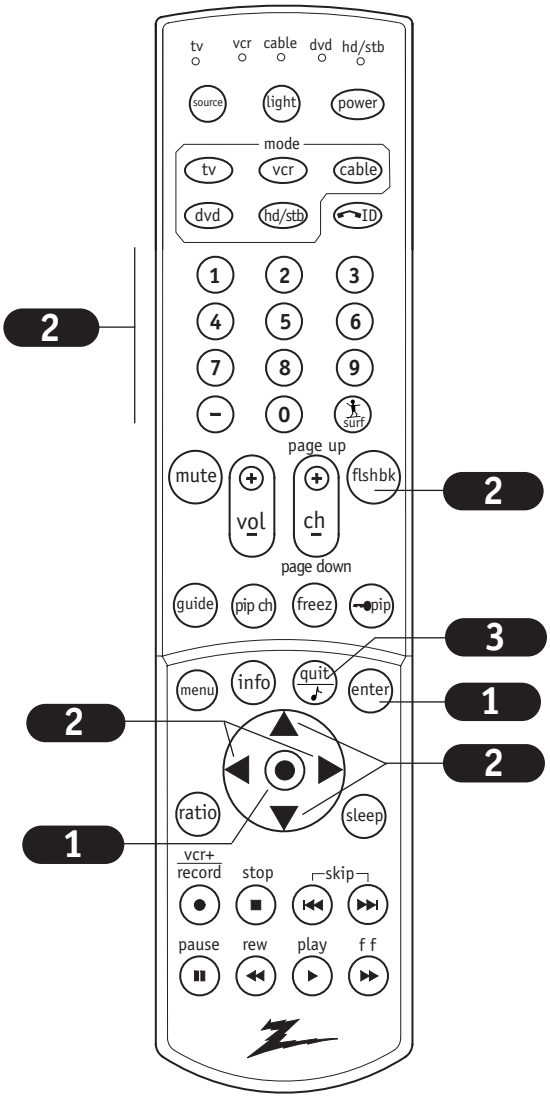
Manual Mode
User sets the EZ Clock options.

- **Clock Mode**: Auto, Manual.
- **Time Set:** Highlight Time Set, press the right arrow. Set hours/minutes using the NUMBER keypad or the left/right arrow keys. Use Flashbk for AM/PM.

Automatic Mode
TV sets the clock, but the user can enter the menus and make custom changes if needed.

- **Time Zone**: Auto, Eastern, Central, Mountain, Pacific.
- **Daylight Savings**: Auto, Off, On.

3 Press QUIT to return to TV viewing.



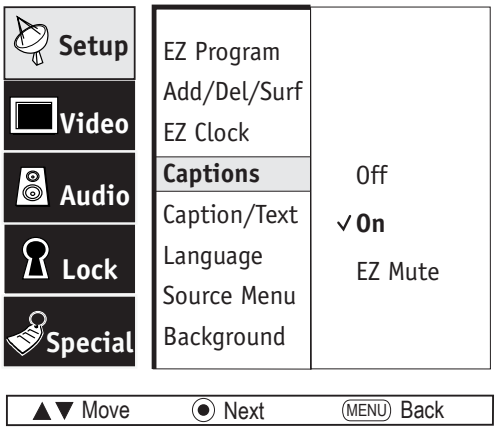
The On/Off timers will not work until the Clock on your television has been set.

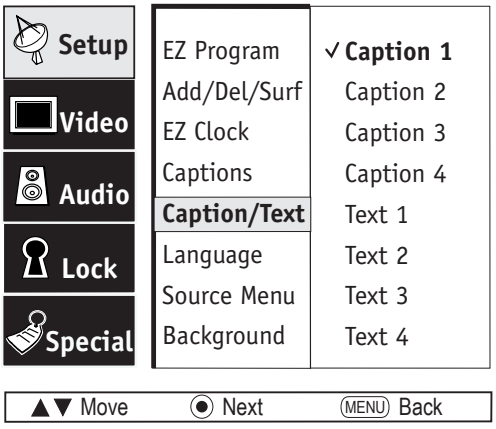
Mini glossary

TIME	A four-number figure broken down into hours and minutes; first two numbers are hours, last two numbers are minutes.
HOURS	First two numbers entered when setting the clock.
MINUTES	Second two numbers entered when setting the clock.
FLASHBK	Use to choose AM or PM when setting time.

Captions Caption/Text

Turn on Closed Captioning or Captions when sound is Mute, then choose a Closed Captions or Text option





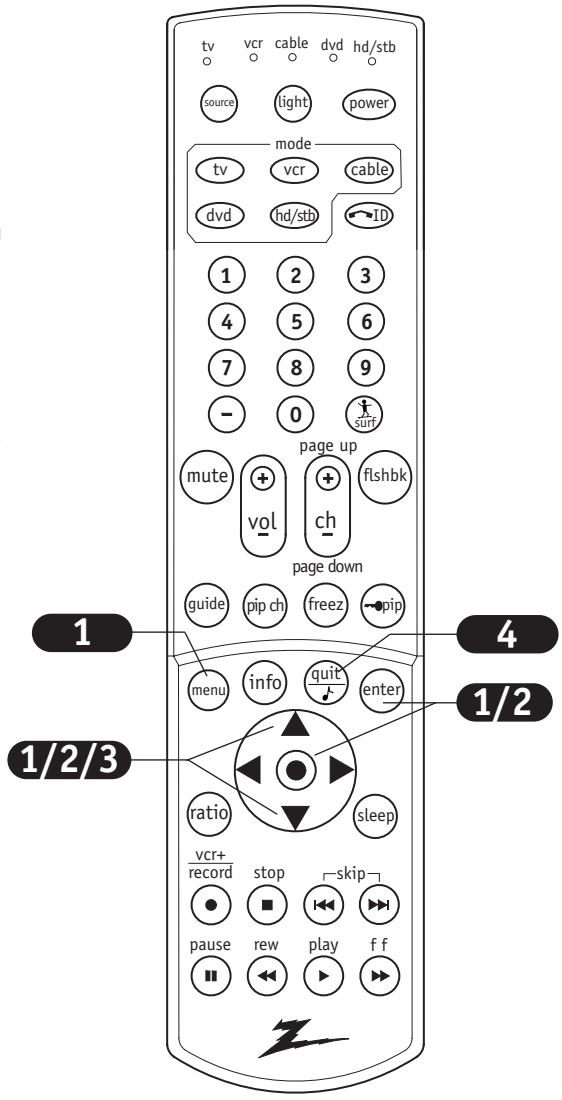
Caption/Text allows your Entertainment Machine to receive various closed caption and text options provided by broadcasters.
Availability and functionality of Caption/Text is determined only by the broadcaster and may not be available on a given program. Standard captions are usually on Caption1, standard text is usually on Text 1.

1 Press MENU, use the Up/Down arrow to select the SETUP menu, then press ENTER/ ⦿ .

2 Use the Up/Down arrow to choose Captions, then press ENTER/ ⦿ .

3 Use the Up/Down arrow to select Off, On or EZ Mute.
Note: If you selected either On or EZ Mute, then use the Up/Down arrows to choose an option from the Caption/Text menu: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4; so that the option will appear when the TV is muted or a program is tuned to that has Closed Captions or Text.

4 Press QUIT to remove menu and return to TV viewing.



Captions come in handy when the television is on mute. Standard closed captioning is available using the Caption 1 option.

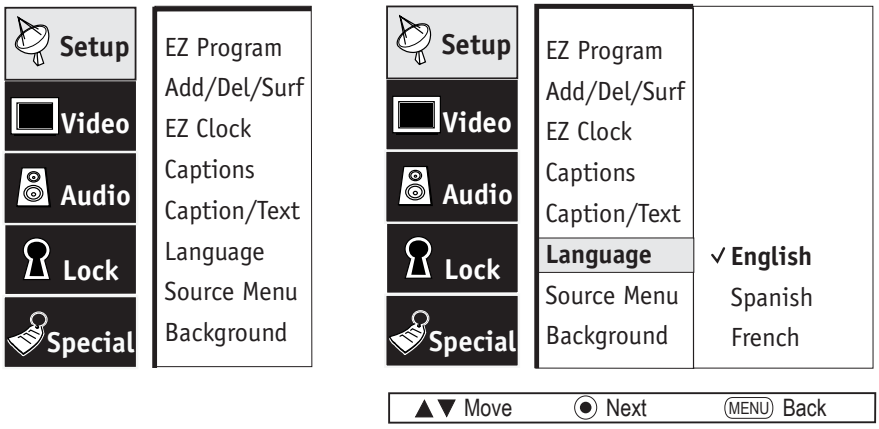
Not all programming has closed captioning or text available; even though Captions 1, 2, 3, 4, and Text 1, 2, 3, 4 are available to broadcasters.

Mini glossary

CAPTIONS	The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.
TEXT	The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

Language

Choose the language you want the on-screen menus to appear in

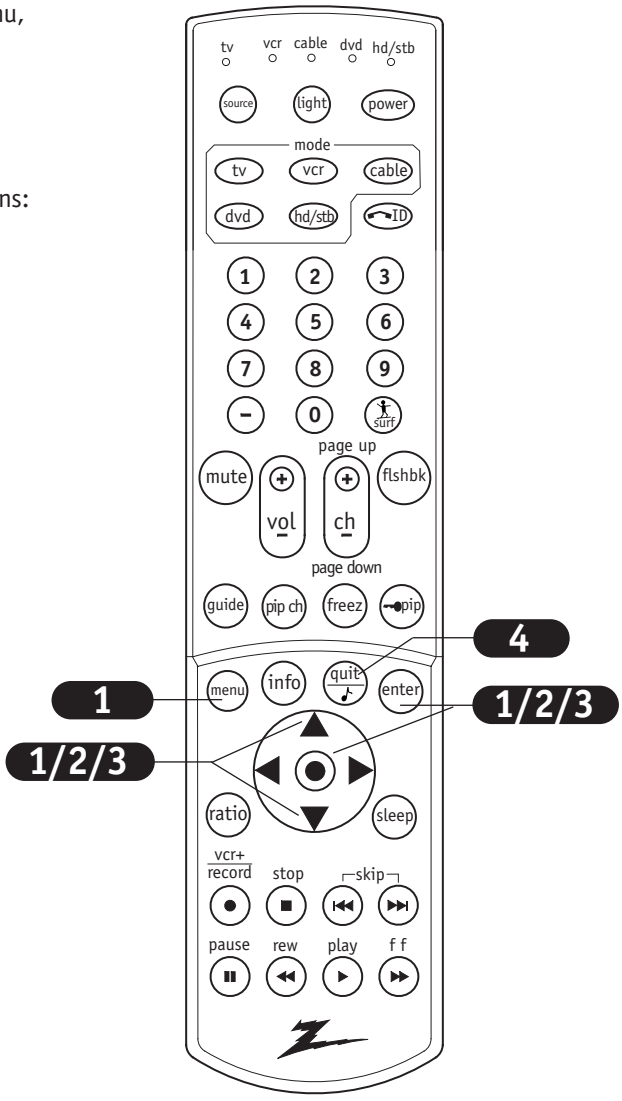


1 Press MENU, use the Up/Down arrow to select the SETUP menu, then press ENTER/ ⦿ .

2 Use the Up/Down arrow to select the Language option on your screen, then press ENTER/ ⦿ .

3 Use the Up/Down arrow to choose any of the following options: English, Spanish or French, then press ENTER/ ⦿ .

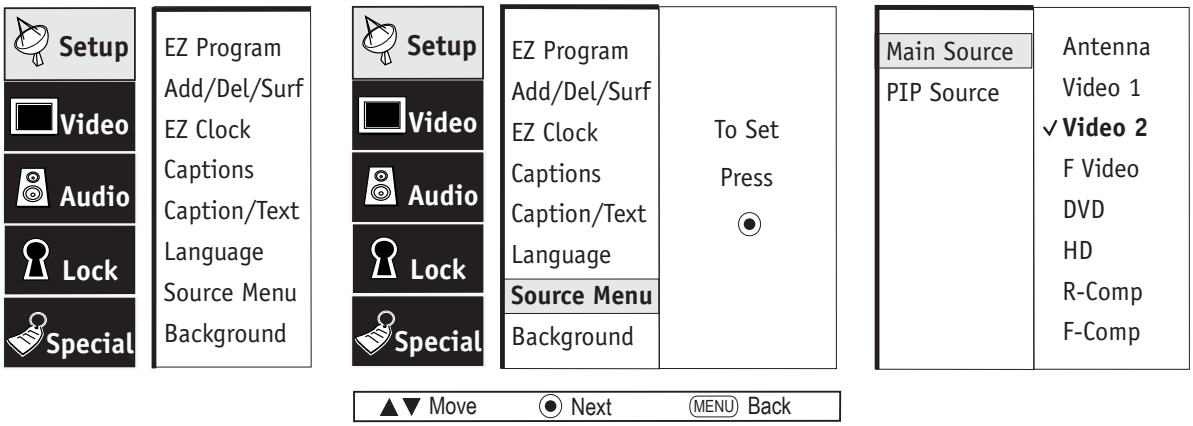
4 Press QUIT to remove menu and to return to TV viewing.



206-03807

Selecting Sources: Main/PIP Pictures

Choose the picture and sound you want to see and hear for the main screen and PIP inset



A **Using SOURCE to Choose Viewing Sources**
Press SOURCE repeatedly to scroll through the available sources: Antenna, Video 1, Video 2, F Video, DVD, HD, R-Comp, F-Comp. (Note: See page 42 for source sensing options.)

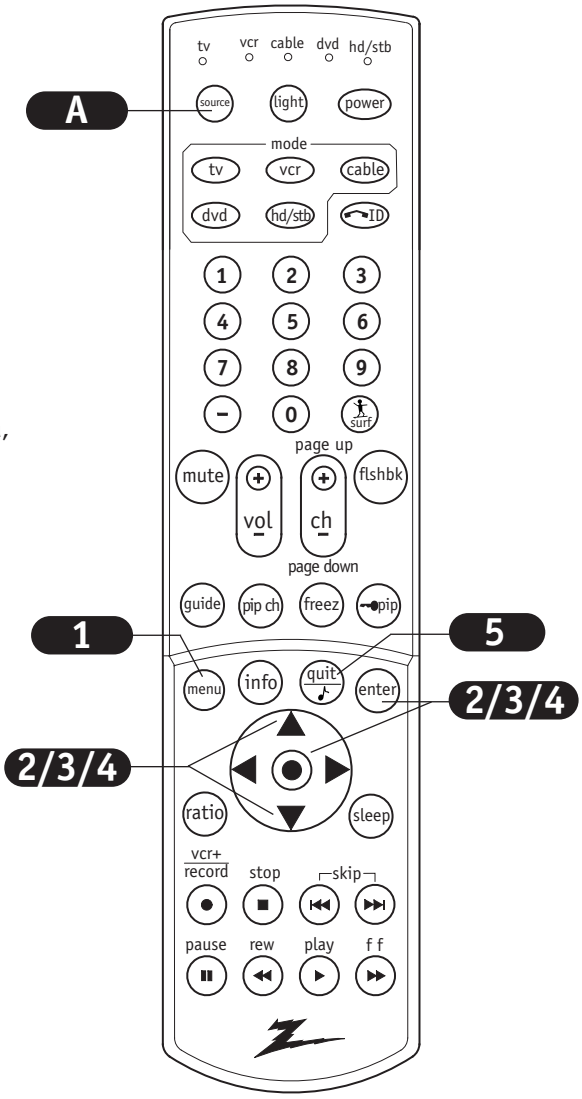
1 **Selecting Sources with the Menus**
Press MENU to show the menus on-screen.

2 Use the Up/Down arrow to select the SETUP MENU option, then press ENTER/ ◉ .

3 Use the Up/Down arrow to select the **Source Menu**, then press ENTER/ ◉ . (Use MENU to go backward as needed.)

4 Use the Up/Down arrow to move the checkmark and select Antenna, or one of the other available sources, then press ENTER/ ◉ .

5 After you have selected viewing sources for the Main picture and PIP inset, press QUIT to remove menus and return to TV viewing.



Be sure to use the Video menu to change the Aspect Ratio as needed when using sources which have different picture proportions for the main screen image.

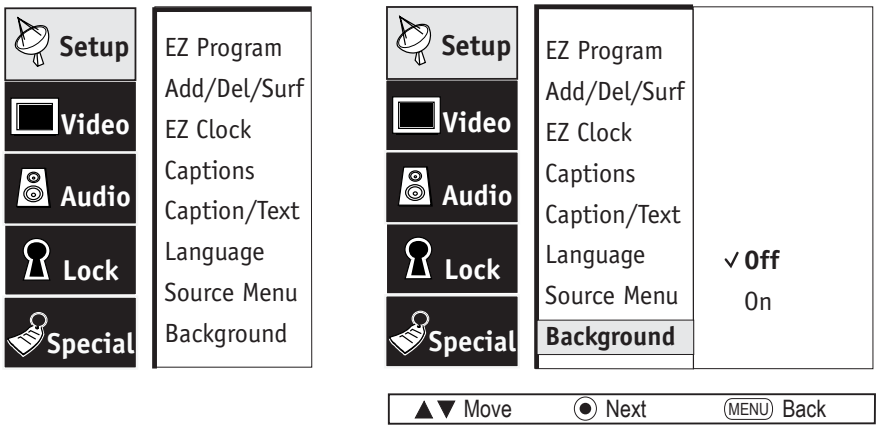
DVD, HD, R-Comp, and F-Comp sources are not available for the PIP inset and cannot be swapped from the main picture when the PIP inset is shown on the screen.

Any connected source can be used for the picture and sound for the main screen.

Use PIP ch key to switch source selection mode between the main screen and the PIP inset, when the PIP inset is on the screen.

Background Menu

Set the background option to On and add a blue background to increase the readability of the menus

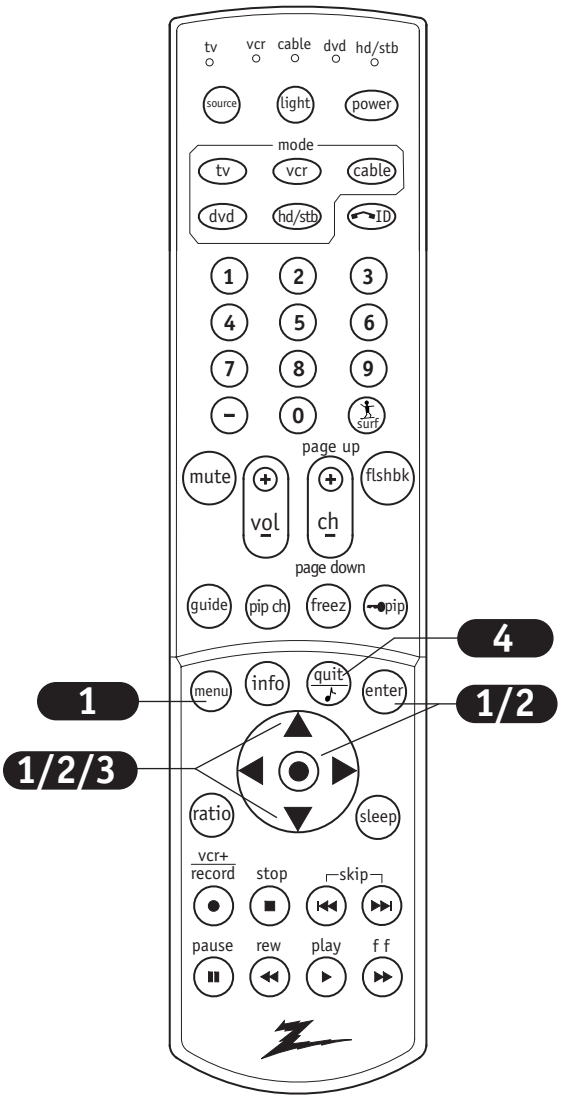


1 Press MENU, use the Up/Down arrow to select the SETUP menu, then press ENTER/ ⦿ .

2 Use the Up/Down arrow to select the Background option on your screen, then press ENTER/ ⦿ .

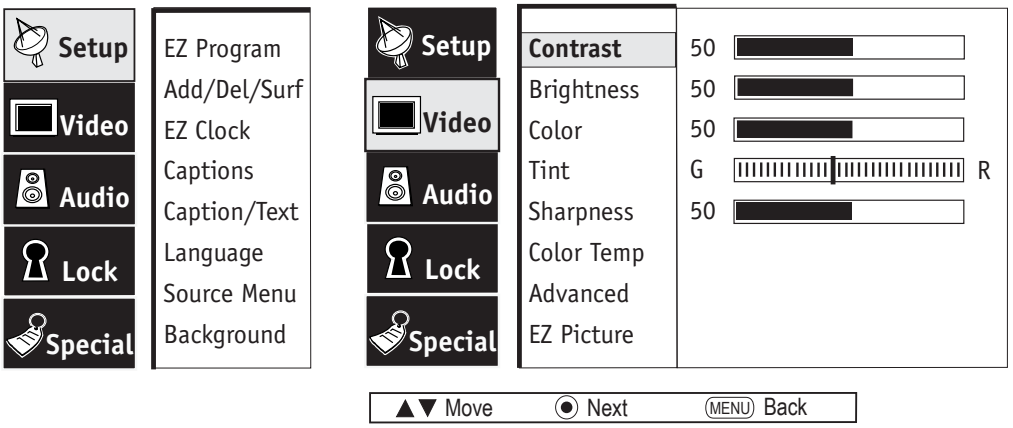
3 Use the Up/Down arrow to select On or Off.

4 Press QUIT to remove menu and to return to TV viewing.



Video Menu

Use the Video menu to customize the picture appearance



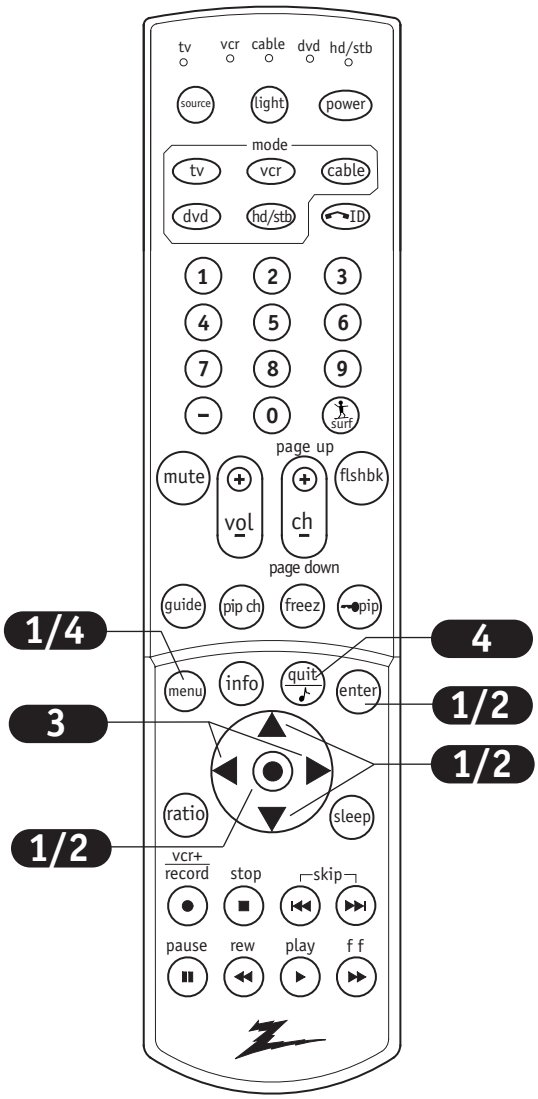
1 Press MENU, use the Up/Down arrow to select the Video menu, then press ENTER/ ⦿ .

2 Using the Up/Down arrow on the remote control, choose Contrast (or another option on your screen), then press ENTER/ ⦿ .

3 Using the Left/Right arrow, change the Contrast level to your preference.

4 Press QUIT, to return to TV viewing, or press MENU and repeat from step two to set the other menu options. Your options are:

- **Contrast**: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
- **Brightness**: Increases or decreases amount of white in the TV picture.
- **Color**: Adjusts levels of all colors in the TV picture.
- **Tint:** Adjusts the relative amounts of red and green colors in your picture.
- **Sharpness:** Raises or lowers the definition of the picture. The lower the level, the softer the image will appear.
- **Color Temp**: Adjusts levels of all colors in the TV picture; Cool or Warm.
- **Advanced** Video Menu Options: See next page.
- **EZ Picture**: Choose either Custom, Normal, Movie, Digital, Video Game, Sports, Night Time, or Weak Signal.
  Custom: Allows you to adjust the picture the way you want.
  Normal: Resets the options to their original settings.
  Other options adjust the picture to the source's image.



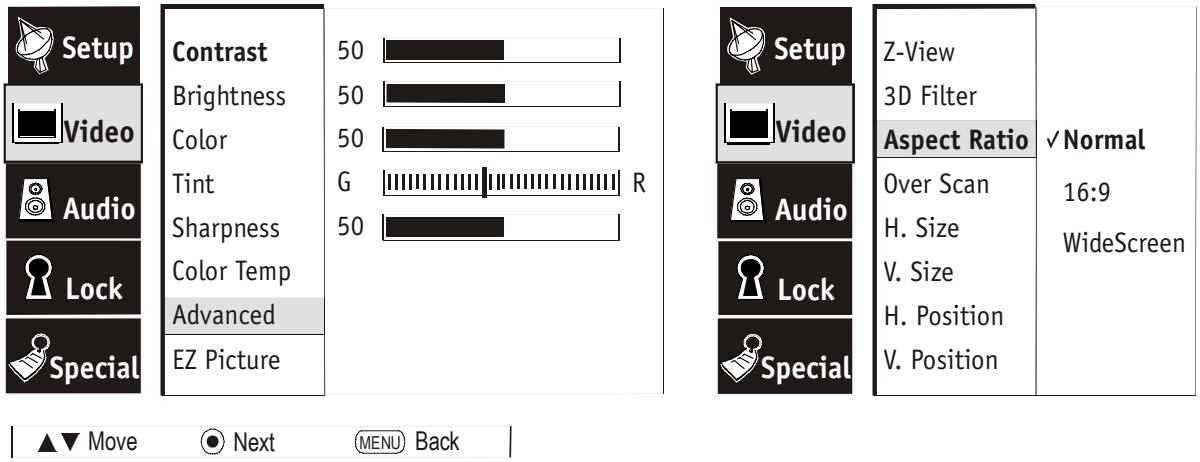
Choose the NORMAL option in EZ Picture to quickly reset the Video Menu options to their original pre-set values, or use your own settings with CUSTOM.

Use the PIP menu to set your preferences for the PIP inset picture.

206-03807

Video Advanced Options Sub-Menu

Use the Video menu to customize the picture appearance to your preferences



1 With the Video menu option selected, press ENTER/ ⦿ .

2 Use the Up/Down arrow to select Advanced, then press ENTER/ ⦿ . Your options are:

- **Z-View**: On, automatically adjusts the picture displays for optimum quality: On or Off.
- **3D Filter**: Can be turned on and off to change the appearance of the picture to your preference.
- **Aspect Ratio**: Selects the proper picture proportion to match the source's image; Normal, 16:9, WideScreen.
- **Over Scan**: If necessary, use to resize a computer image to better fit the TV screen proportions.

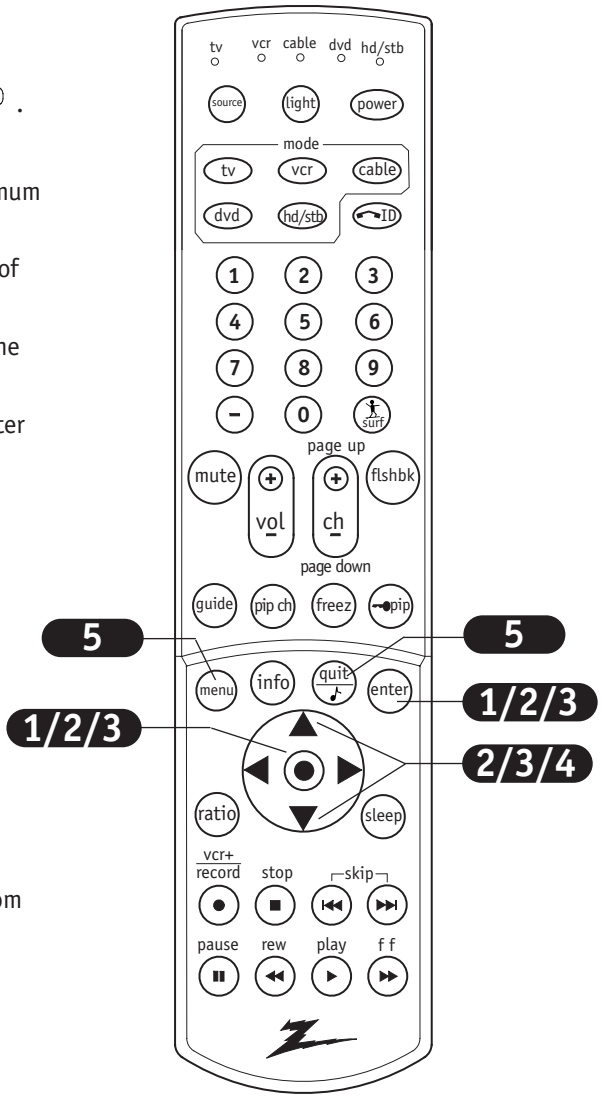
Picture Adjustments For VGA and SVGA Computer Modes

- **H. Size**: Adjusts horizontal size of picture.
- **V. Size:** Adjusts vertical size of picture.
- **H. Position:** Adjusts horizontal position of picture.
- **V. Position**: Adjusts vertical position of picture.

3 Using the Up/Down arrow, choose Aspect Ratio on the menu (or choose another option), then press ENTER/ ⦿ .

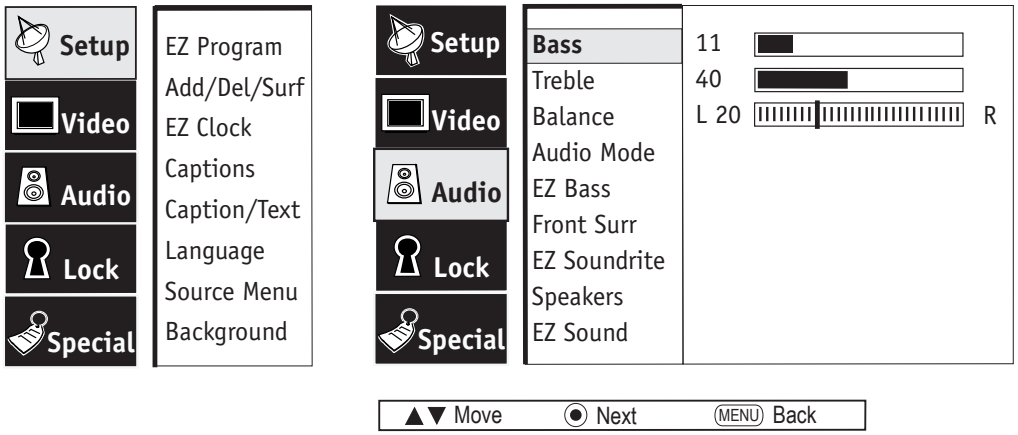
4 Using the Up/Down arrow, change the Aspect Ratio to the correct video proportion: Normal, 16:9, or WideScreen.

5 Press QUIT, to return to TV viewing, or press MENU and repeat from step two to set the other menu options.



Audio Menu

Adjust the sound to your preference and set up the audio features



1 Press MENU, use the Up/Down arrow to select the Audio menu, then press ENTER/ ⦿ .

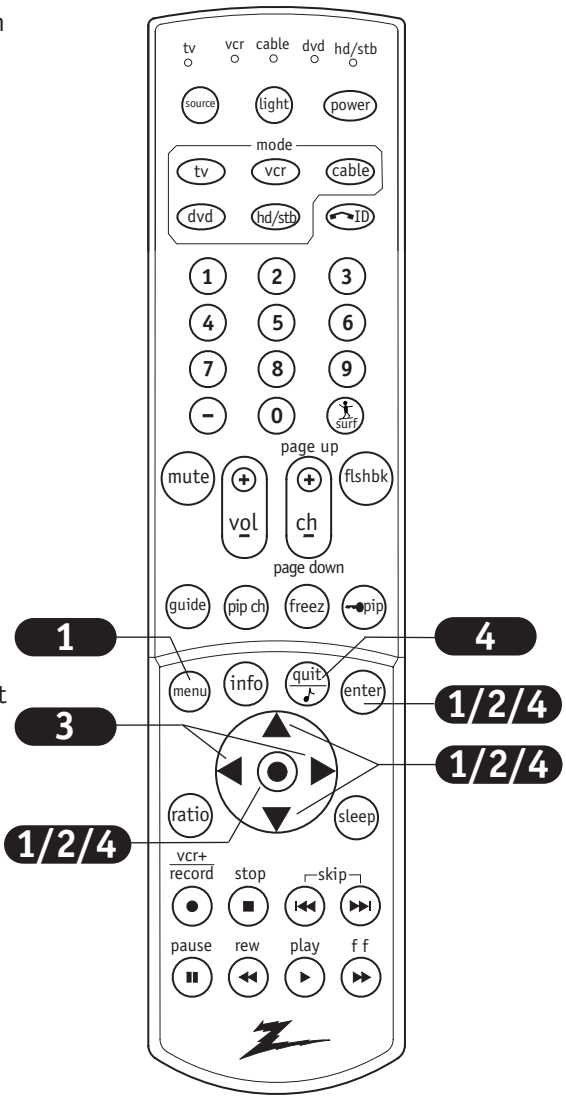
2 Using the Up/Down arrow on the remote control, highlight the audio option you want to change, then press ENTER/ ⦿ . Choose from:

- **Bass**: Increases/decreases lower-end sounds.
- **Treble**: Increases/decreases higher-end sounds.
- **Balance**: Allows you to put the sound more to the left or right channel.
- **Audio Mode**: Choose from Stereo sound, Mono sound, or 2nd Audio/SAP.
- **EZ Bass**: Turns the bass booster function on or off.
- **Front Surround**: Turns front surround sound on or off.
- **EZ SoundRite**: Turns the uniform volume level on or off.
- **Speakers**: Turns the TV speakers on or off.
- **EZ Sound**: Use one of the five factory audio presets: Normal, Stadium, News, Music, Theater, or your own "Custom" settings.

3 Use the Left/Right arrow to adjust or change the selected option.

4 Use the Up/Down arrow to select another audio option and adjust it or press QUIT to return to TV viewing.

Not all programming is broadcast in stereo sound or has 2nd Audio SAP.



Mini glossary

STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
MONO SOUND	Mono (monaural) sound is one channel of sound. For more than one speaker, all the speakers play the same audio.
2nd Audio/SAP	Second audio program provided by some broadcasters; usually a different language.

Lock Options Overview

If used, this optional feature can "block" undesirable programming from appearing on the TV. Note: Lock, also known and referred to in the text as Parental Control, is not available in Computer Mode. To block Computer inputs, use the block AUX SOURCES option in the Lock menu in TV Mode; computer inputs will not be available.

Lock/Parental Control offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV. Parental control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies the secret 4-number code, the password. The number of hours blocked are specified. General audience and children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems should be used, for complete coverage. The ratings are based mainly on children's ages.

Overview

To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for MPAA, from the selections below AND choose ratings from the TV Parental Guidelines Rating System on the next page, using the Age Block option for General Audiences, and for Children. In addition to those, you may wish to add additional restrictions from the Content Block menu. See the Parental Control menu, and submenus example on the next two pages.

Things to Consider before Setting Up Lock (Parental Control)

• Determine which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

• Do you want to block the auxiliary video source entirely? (Blocks the signal sent by the equipment, such as a VCR, connected to the TV Audio/Video input jacks; in the Aux. Block option.) Or leave unblocked, then choose allowable ratings.

• Block program "Content" based on individual parameters such as: Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes; in the Content Blk option.

• How many hours do you want Parental Control to be active? You can set the Hours option for up to 99 hours.

• Select a secret password; in the Set Password option. Use the number keys on the remote. Don't forget the password, it is the only way you can access the Parental Control menu and change rating selections, or turn Parental Control off.

• Do you want Parental Control to be active all the time? If not, you can turn it on or off; with the Lock On/Off option.

You can set different Parental Control viewing restrictions for general audiences and for children - - both can be active at the same time.

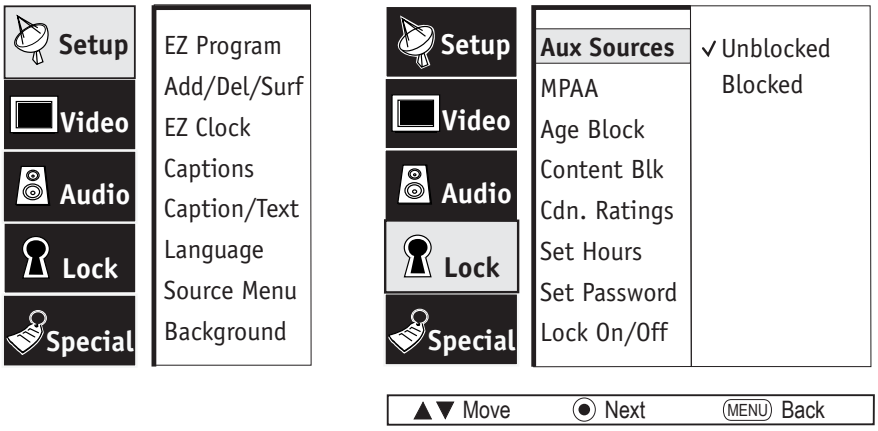
Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.

Even if you choose to leave the Aux inputs unblocked, the ratings you specify will automatically restrict the programming that appears from the video sources.

You cannot disable Parental Control by disconnecting the TV from power. Block hours will automatically reset to the original block time setting specified if power is disconnected.

Lock Menu

After you have read the preceding page, follow instructions below to set up and activate Lock

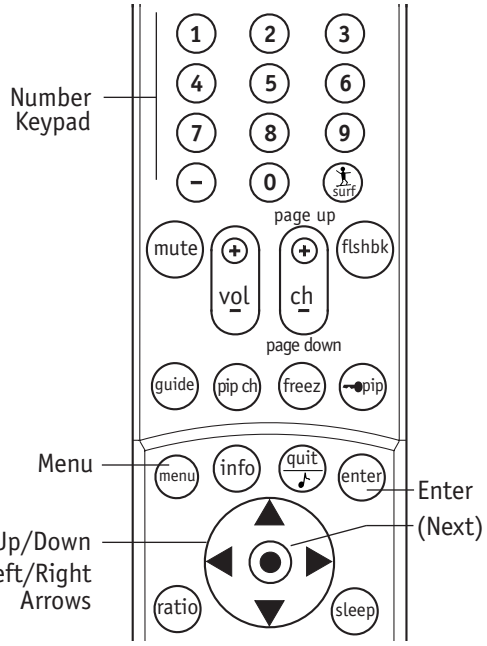


1 As shown above, with the Lock menu on-screen, use the Up/Down arrow to highlight an option like Content Blk, then press ENTER/ ⦿ .

2 Use the Up/Down/Left/Right arrows to select and adjust or set the rating for an option. For Sex Scenes for example, use the "From TV-PG" setting. (See the Mini Glossary, Ratings Charts on this and the previous page for rating definitions.)

3 After you have selected and adjusted the Lock menu options to your preference:
- Set the hours you want Lock (Parental Control) active.
- Set a 4-number password.
- Set the Lock On/Off option to either on or off.

Note: No Rating means the broadcast does not include rating information. You can choose to block broadcasts without rating data.



Mini glossary

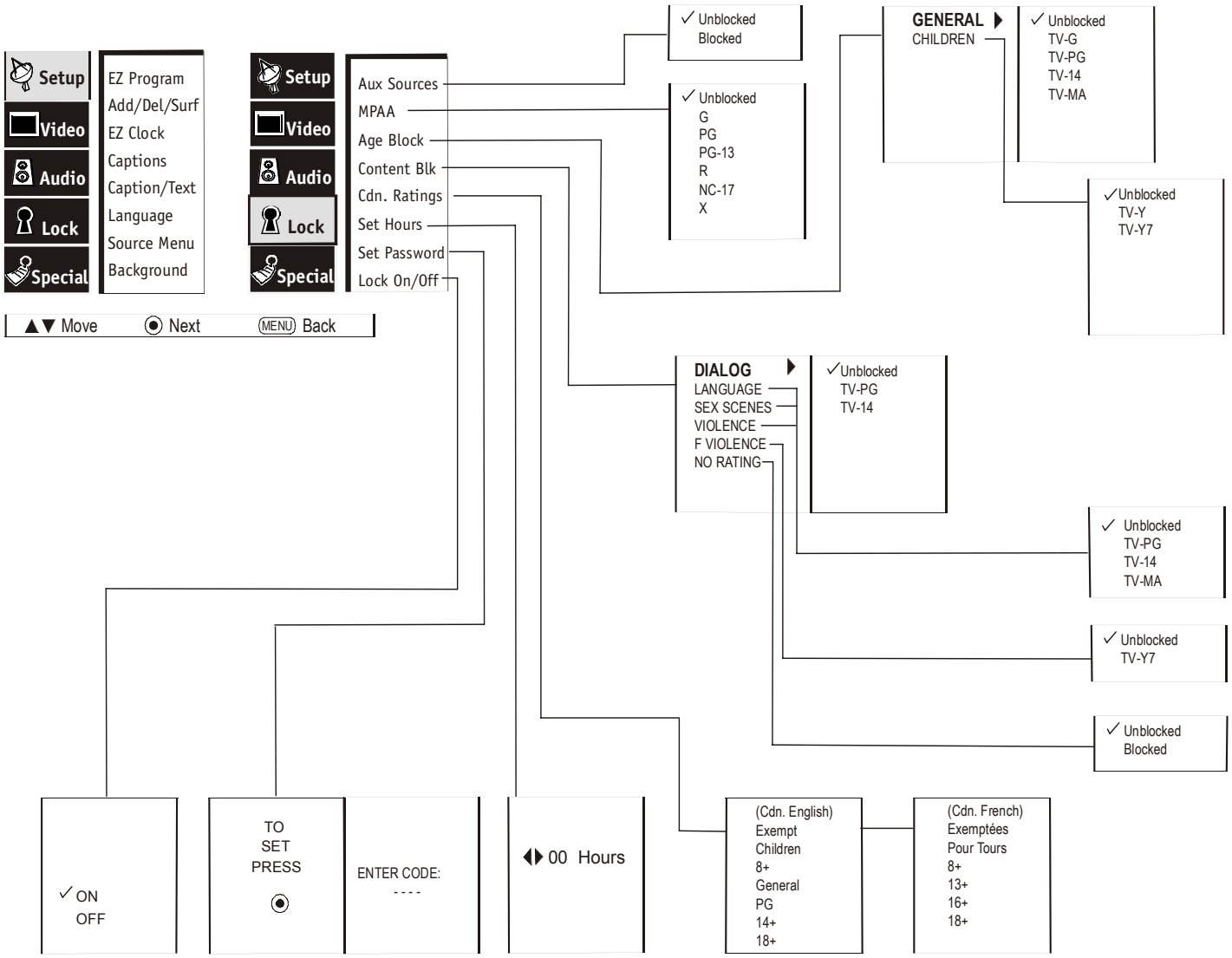
MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

Lock Menu Structure

Lock menus with various restriction options are shown below



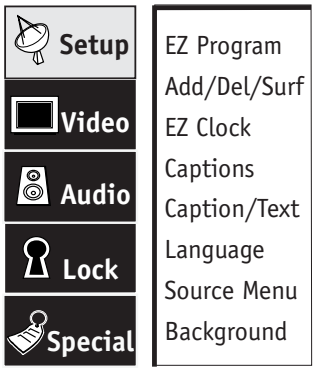
Mini glossary

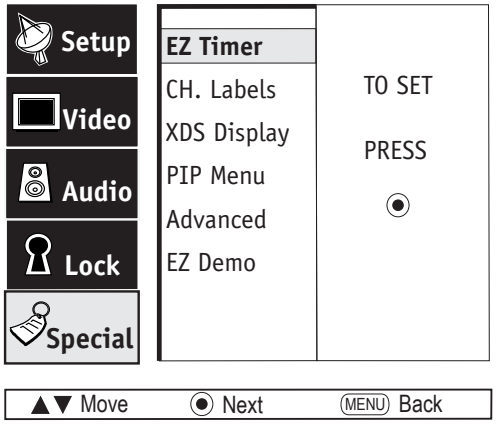
TV PARENTAL GUIDELINE RATING SYSTEM

TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
CHILDREN'S CLASSIFICATIONS		
TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

EZ Timer: Sleep Timer Menu

Set the Sleep Timer to automatically turn the TV off, after the preset time has expired





A **Sleep Timer**
Use SLEEP to choose a preset time from 10 minutes to 4 hours for the TV to automatically turn itself off.

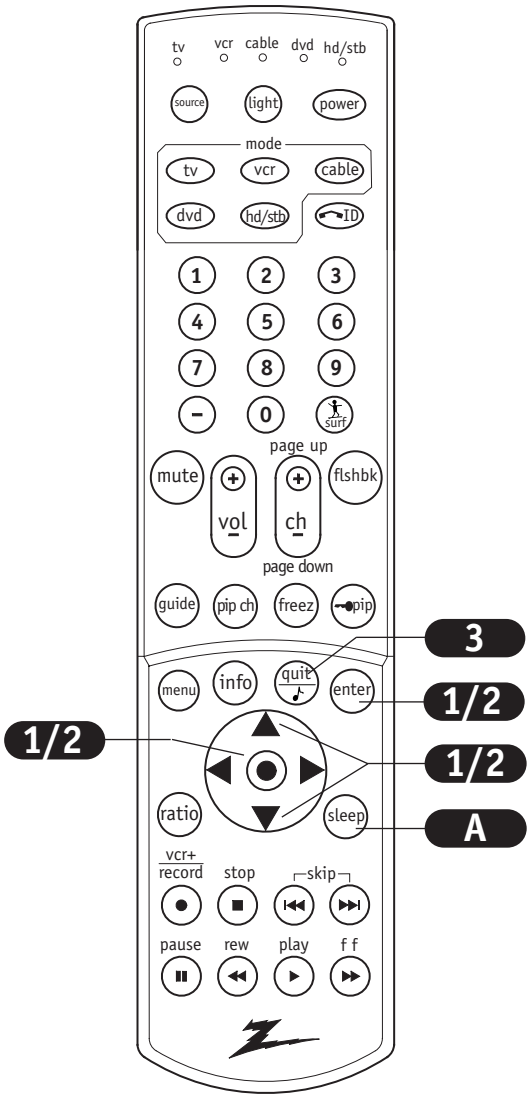
Using the EZ Timer Menu

Selecting Sleep Timer Menu

1 With the EZ Timer menu selected, press ENTER/◉. Use the Up/Down arrows to choose Sleep Timer, then press ENTER/◉.

2 Use the Up/Down arrows to select a TV turn-off time from the options listed, press ENTER/◉.

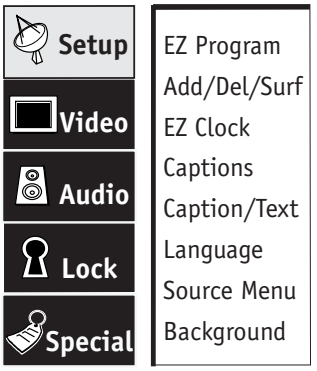
3 Press QUIT to return to TV viewing.

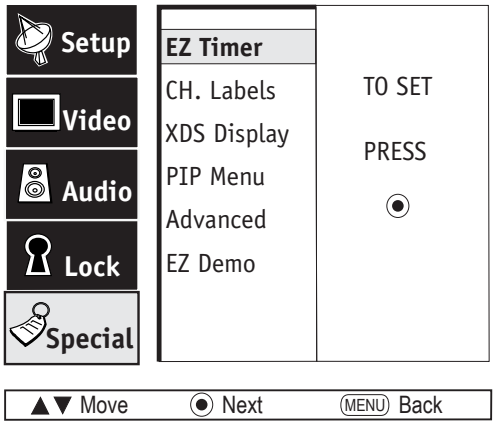


One minute before TV turnoff, the Sleep Timer on-screen display will appear letting you know that the TV will turn itself off in the time specified.

EZ Timer: On/Off Timer Menus

Set the On/Off timers to turn the TV on each day at the specified time and off, or have the timer settings retained and disable the On/Off function temporarily





Setting the TV Turn On Time

1 With the EZ Timer menu selected, use the Up/Down arrows to choose On Time, then press ENTER/◉ .

2 Use the number keypad or the Left/Right arrows to pick a time for the TV to automatically turn itself on each day. Use FLSHBK to set AM or PM.

Setting the TV Turn Off Time

1 With the EZ Timer menu selected, use the Up/Down arrows to choose Off Time, then press ENTER/◉ .

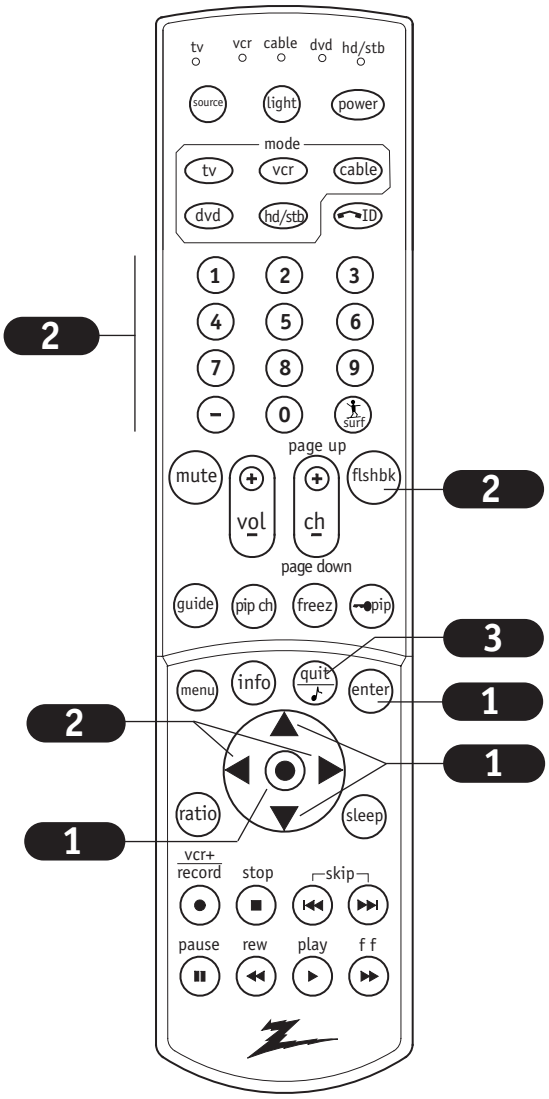
2 Use the number keypad or the Left/Right arrows to pick a time for the TV to automatically turn itself off each day. Use FLSHBK to set AM or PM.

Using the TV On/Off Timer Option

1 With the EZ Timer menu selected, use the Up/Down arrows to choose On/Off Timer, then press ENTER/◉ .

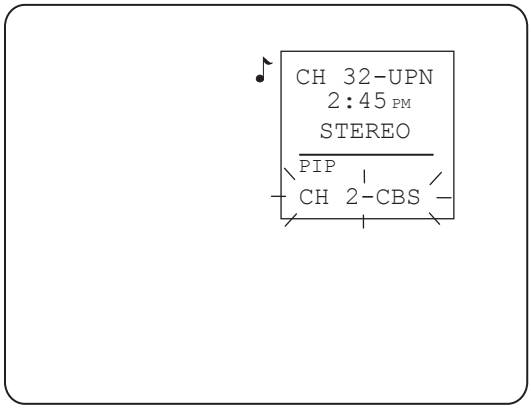
2 Select On of Off On: TV on/off timers function each day.
Off: TV on/off timers do not function although on/off time settings are retained in menu.

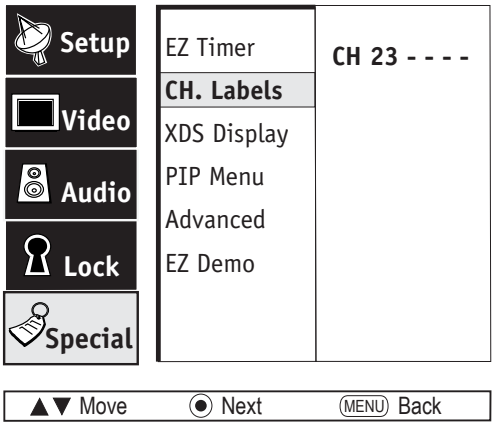
3 Press QUIT to return to TV viewing.



Using Preset Channel Labels

Customize your Channel/Time on-screen display by adding preset Channel Labels





1 Using either the NUMBER keypad or the Channel Up/Down keys on the remote, select a channel.

2 Press MENU, use the Up/Down arrow to select Special, then press ENTER/◉ .

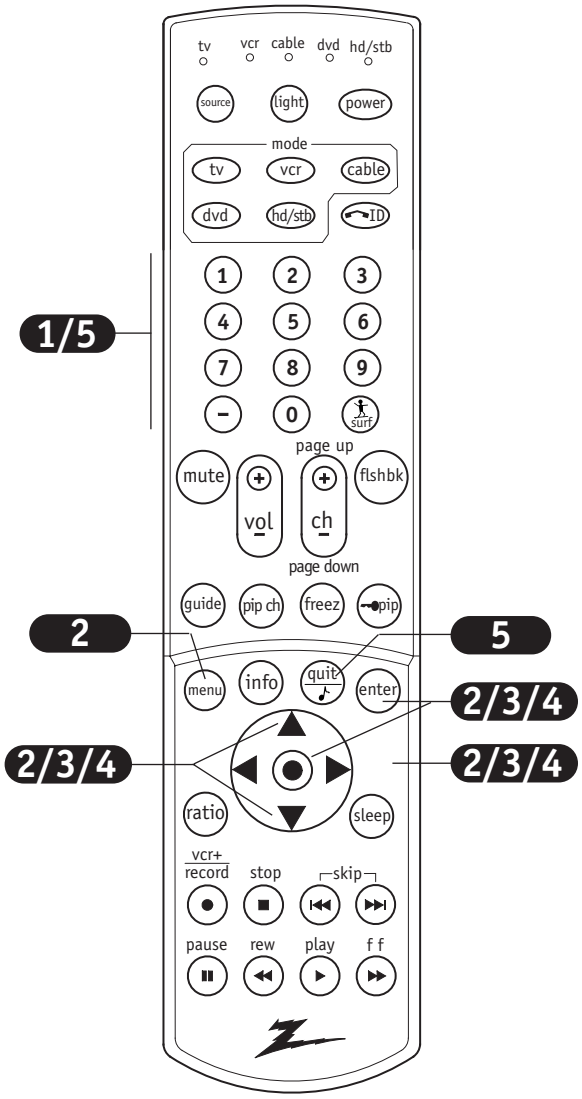
3 Select the Ch. Labels option using the Up/Down arrow, then press ENTER/◉ .

4 Pressing either the Up or Down arrow repeatedly, pick the label you want from the available selections; such as A & E.

5 To continue channel labeling, select another channel or if you are finished, press QUIT to remove menu.

Some channels already provide a channel label which is included with the broadcast signal.

Labeling the channels helps identify which familiar nationwide channels are available. For example, A & E - Arts and Entertainment, CNN - News, ESPN - Sports, HBO - Movies, and so on...

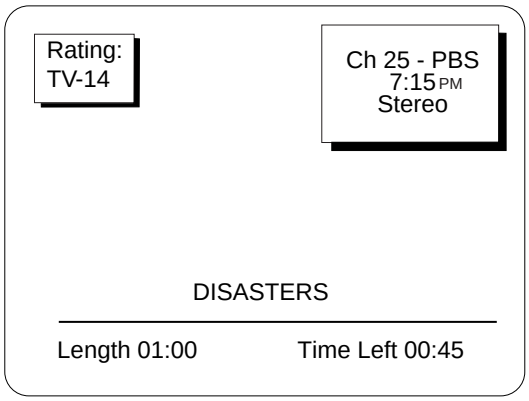


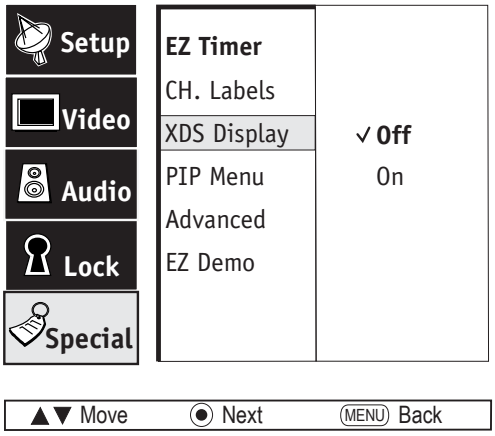
Mini glossary

- - - -	The 4 dashes will allow a channel label to appear; if one is provided by the broadcaster.
NONE	Prevents any channel label from appearing.

XDS On-Screen Display

Let the Extended Data Service display in-depth program information



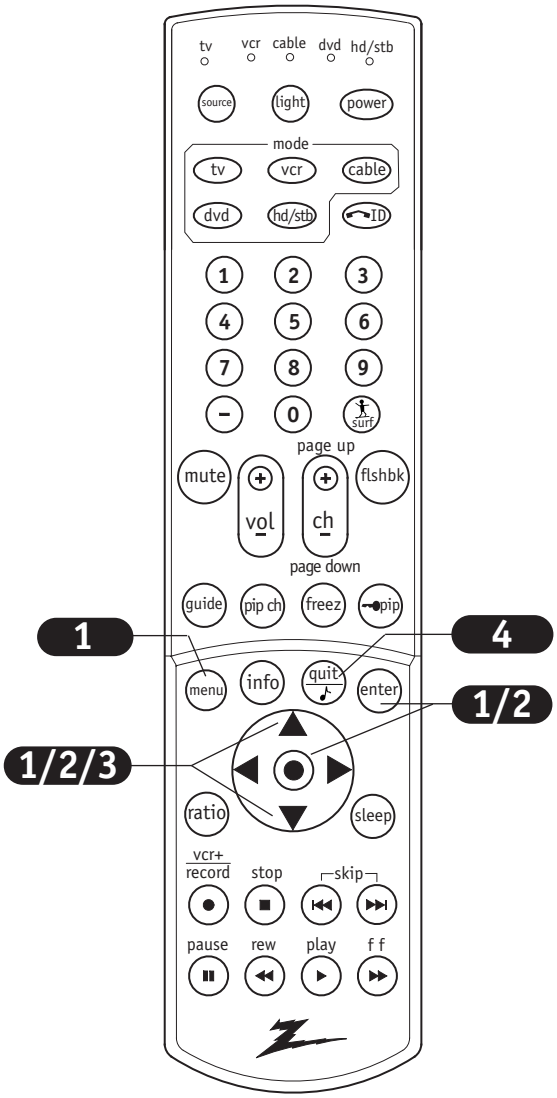


1 Press MENU, use the Up/Down arrow to select the SPECIAL menu on your screen, then press ENTER/ ◉ .

2 Use the Up/Down arrow to select the XDS DISPLAY option, then press ENTER/ ◉ .

3 Use the Up/Down arrow to choose: On, or Off.
On: XDS Display will appear as channels are changed or ENTER/ ◉ is pressed,
Off: XDS Display will not appear.

4 Press QUIT to remove the menu and return to TV viewing.



At this printing, XDS data may only be provided by some broadcasting stations; and as a result, may only be available on some channels.

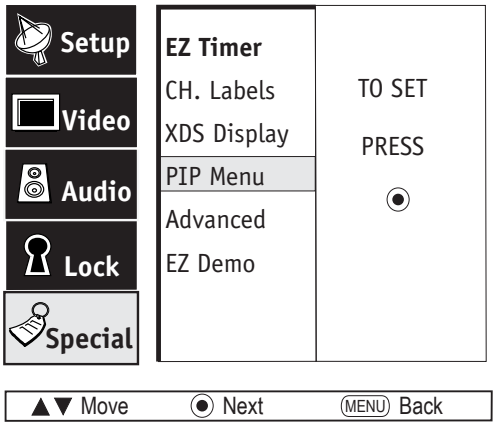
Even though XDS data may be present, it may not be available during commercial or network breaks.

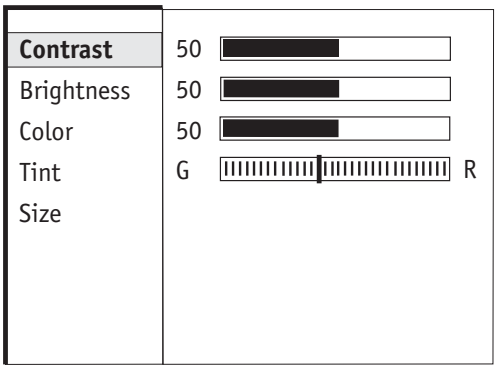
Mini glossary

XDS	Extended Data Service - - If provided by the broadcaster, may show some or all of the following information:
	Channel/Time/Audio display. Network label if present. Title of program. Length of program in hours and minutes. Time remaining on the program in hours and minutes. Program content rating, and if PIP is active, the PIP channel number.

PIP Inset Picture Adjustments

Set the PIP inset picture appearance options to your personal viewing preferences





1 Press MENU. Use the Up/Down arrow to select the SPECIAL menu, press ENTER/◉ .

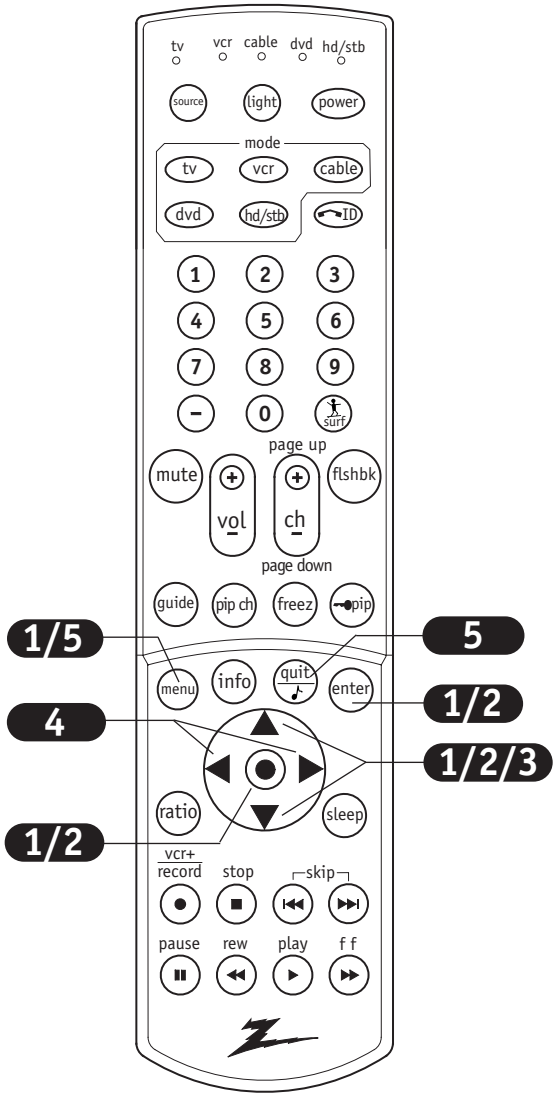
2 Use the Up/Down arrow to select the PIP Menu option, then press ENTER/◉ . Your options are:

- **Contrast**: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
- **Brightness**: Increases or decreases amount of white in the PIP picture.
- **Color**: Adjusts levels of all colors in the PIP picture.
- **Tint:** Adjust the relative amounts of the color red and green in the PIP picture.
- **Size:** Chooses the size that the PIP inset will appear on the screen: Small or Large.

3 Using the Up/Down arrow on the remote control, choose Contrast on your screen.

4 Using the Left/Right arrow, change the contrast level to your preference.

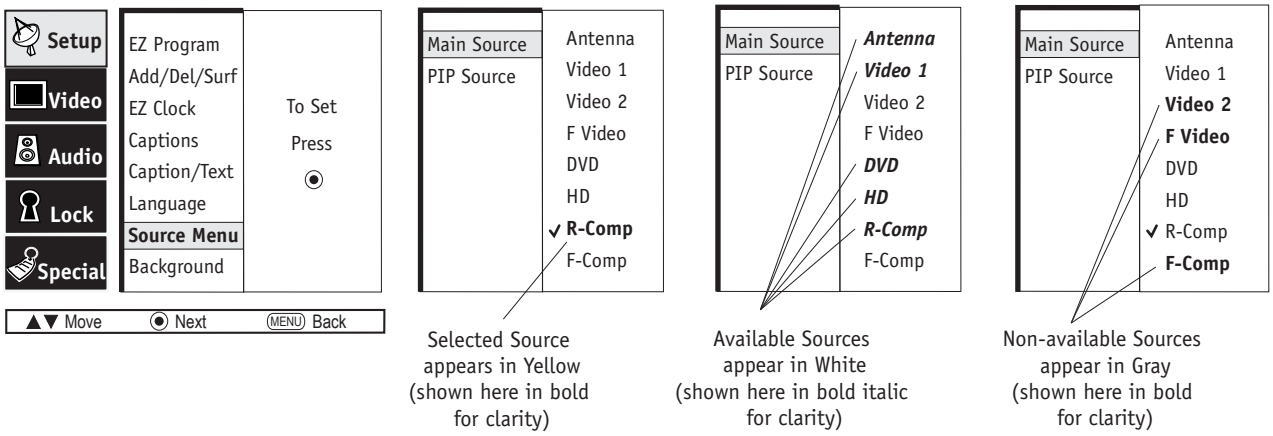
5 Press QUIT, to return to TV viewing, or press MENU and repeat from step two to set other PIP inset appearance menu options.

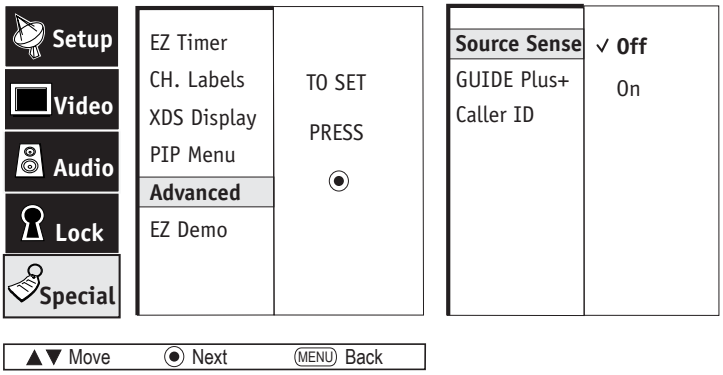


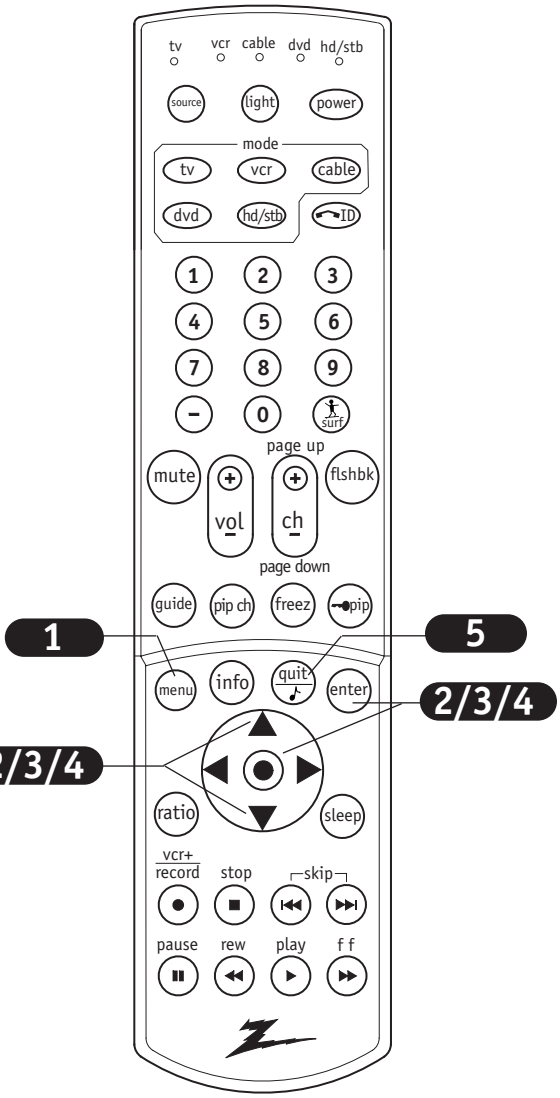
See the PIP section for Picture-in-Picture setup and operation.

Source Sense Sub-Menu

Source Sense automatically determines the picture and sound sources connected to the TV







1 Press MENU, then press ENTER/ ⦿ .

2 Use the Up/Down arrow to select the SPECIAL menu, then press ENTER/ ⦿ .

3 Use the Up/Down arrow to select SOURCE SENSE, then press the center circle (ENTER/ ⦿).

4 Use Up/Down to select On or Off, then press ENTER/ ⦿ .

5 Press QUIT to remove menus and return to TV viewing.

Source Sense On
TV shows sources with and without equipment connected.

- **Selected Source**: Appears in yellow text on the menu.
- **Connected Sources**: Appear in white text on the menu.
- **Unconnected Sources:** Appear in gray text on the menu.

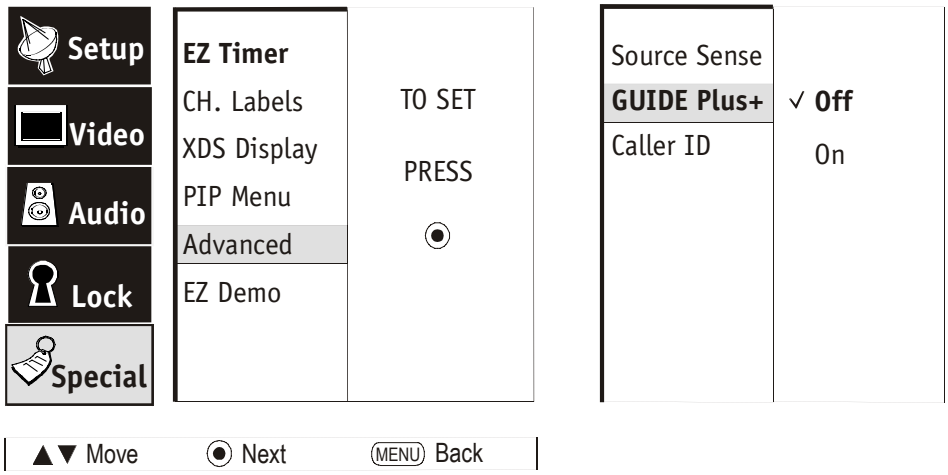
Source Sense Off (Default)
TV shows all source menu options.

- **Selected Source**: Appears in yellow text on the menu.
- **Connected/Not Connected Sources:** All sources appear in white text on the menu.

Be sure to use the Video menu or the RATIO key to change the picture aspect ratio if required to view sources with other picture proportions.

GUIDE Plus+ Option Menu

Set up the TV to have the GUIDE Plus+ programming grid appear when the TV is turned on



1 Press MENU, use the Up/Down arrow to select the SPECIAL menu, then press ENTER/◉ .

2 Use the Up/Down arrow to select Advanced, then press ENTER/◉ .

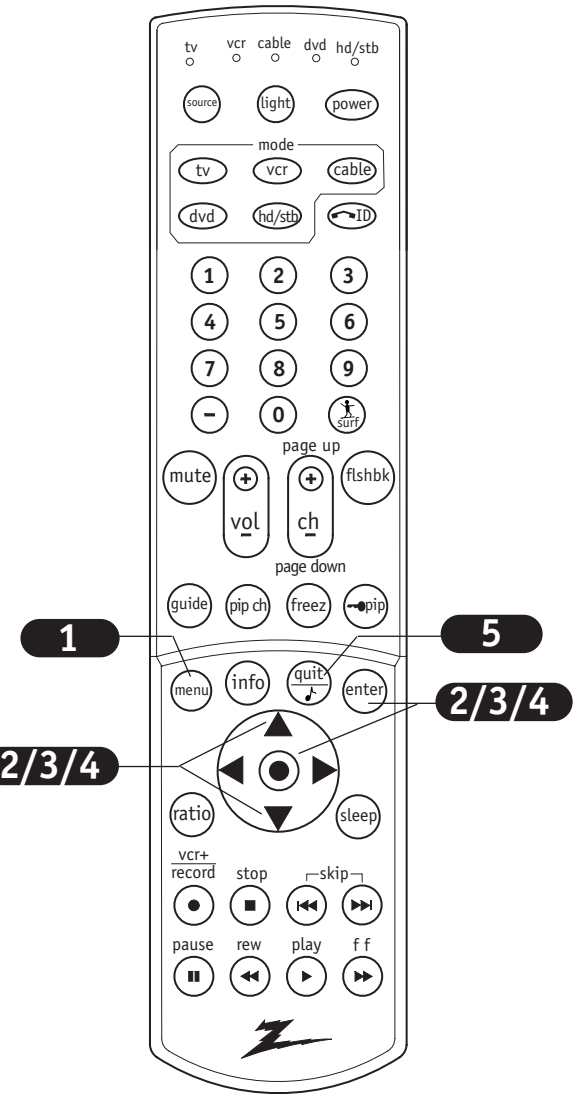
3 Use the Up/Down arrow to select the GUIDE Plus+ option, then press ENTER/◉ .

4 Use Up/Down to select On or OFF, then press ENTER/◉ .

GUIDE Plus+ On
TV shows GUIDE Plus+ Program Grid when TV is turned on.

GUIDE Plus+ Off (Default)
TV shows previously selected channel when TV is turned on.

5 Press QUIT to remove menus and return to TV viewing.

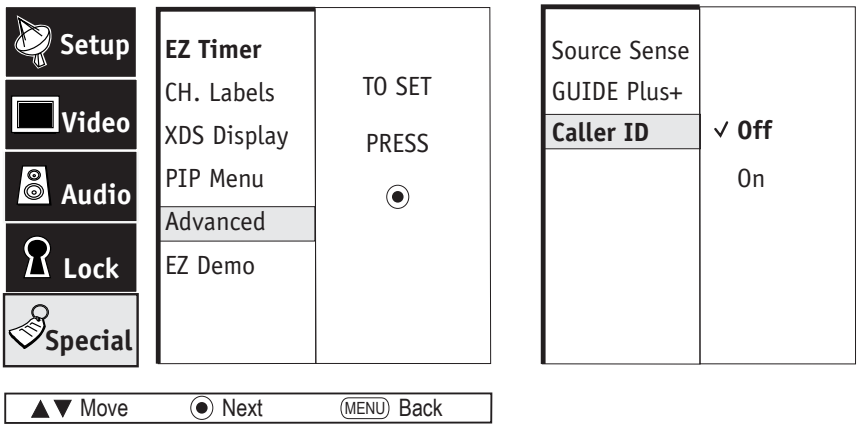


Be sure to complete the GUIDE Plus+ setup, see the GUIDE Plus+ section.

Caller ID (Identification) Menu

Caller ID reveals the phone number of a caller on your TV screen and stores the last ten calls in memory

Caller ID
If you subscribe to Caller ID service from your local telephone service provider, incoming telephone call numbers can be displayed on your TV screen. Also displays the last ten caller's numbers, time, and date.



1 Press MENU, use the Up/Down arrow to select the SPECIAL menu, then press the center circle (ENTER/).

2 Use the Up/Down arrow to select the ADVANCED option, then press the center circle (ENTER/).

3 Use the Up/Down arrow to select the Caller ID option, then press the center circle (ENTER/).

4 Use the Up/Down arrow to select On or Off, then press ENTER/ .

5 Press QUIT to remove menus and return to TV viewing.

Caller ID On, Phone rings
TV shows caller's phone number.

Caller ID Off, Phone rings
No caller number displayed.

4-a. **To Show The Phone Numbers Of The Last Ten Callers:**
After step 4 above, press ENTER/ again to show last ten calls.

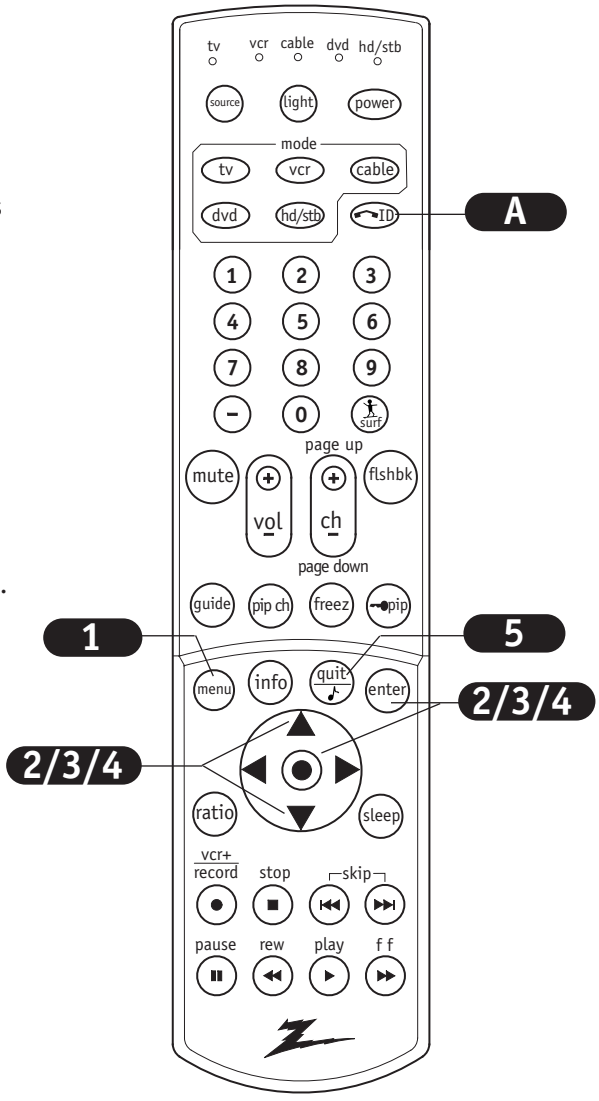
5-a. Press QUIT or ID to remove caller list and return to TV viewing.

A **To Show Last Ten Callers Without Using Menu:**
Press ID. Press ID again to remove display.

Recent Calls

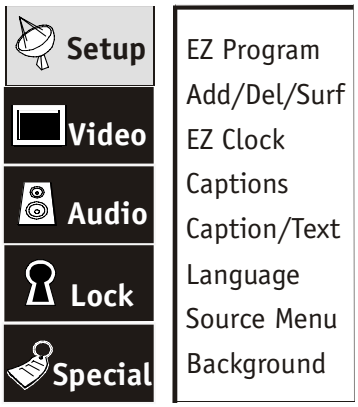
(123) 456-7890	11:39 PM	OCT 22
(123) 567-8904	8:30 PM	OCT 22
(123) 678-9045	8:33 AM	OCT 21
(123) 789-0456	10:33 AM	OCT 21
(123) 890-4567	7:33 PM	OCT 19
(123) 904-5678	9:33 AM	OCT 19
(123) 456-7890	11:33 PM	OCT 18
(123) 045-6789	8:33 AM	OCT 17
(123) 456-7890	5:33 PM	OCT 17
(123) 567-8904	6:33 AM	OCT 16

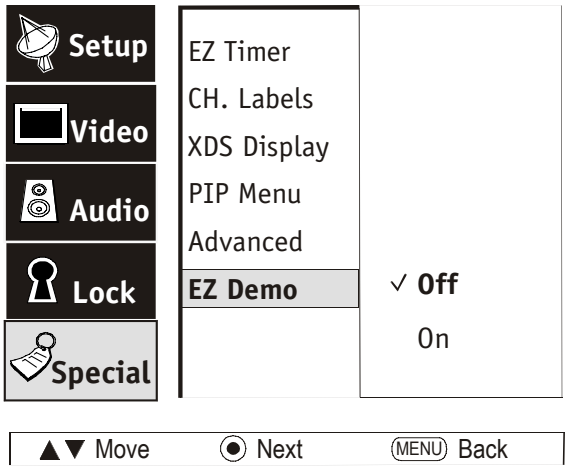
For Caller ID to work, you must subscribe to this service from your local phone company.



EZ Demo Menu

Your Entertainment Machine can show you the menus available





1 Press MENU and use Up/Down arrow to select the SPECIAL menu on your screen, then press ENTER/⦿ .

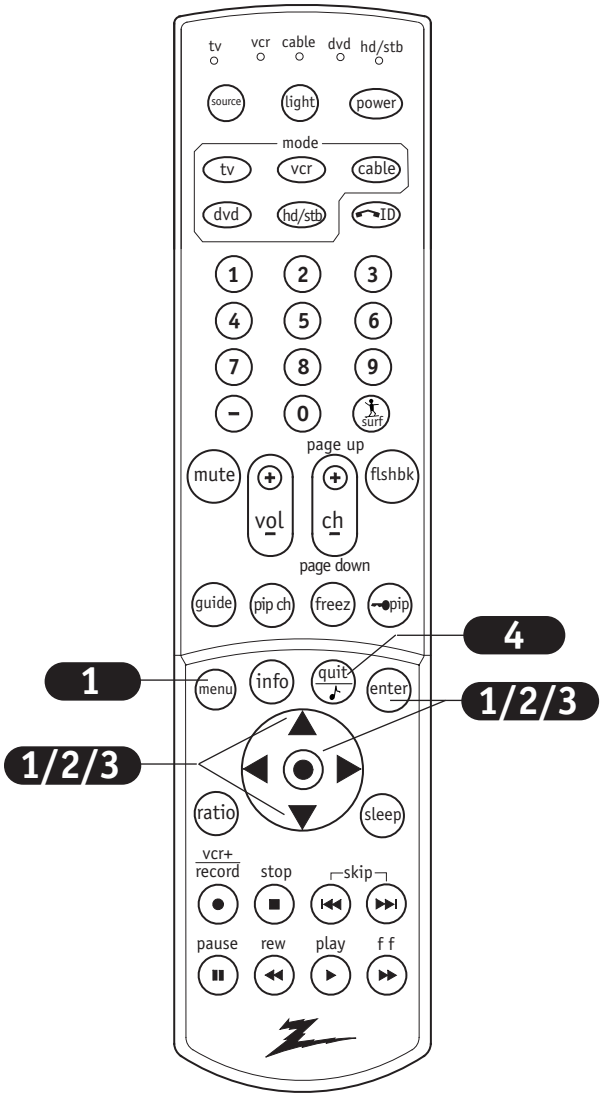
2 Use the Up/Down arrow to select the EZ DEMO option, then press ENTER/⦿ .

3 Use the Up/Down arrow to choose either:
On; then press ENTER/⦿ . EZ Demo will continue to run *(even if the TV is turned Off and On again)* until it is turned off in the SPECIAL menu.
Off; EZ Demo will not be active.

4 Press QUIT to remove menu.

Even if the TV is turned off, the EZ Demo feature will continue to operate when the TV is turned on again.

<u>The only way to turn EZ Demo off is to select Off, in the SPECIAL menu.</u>



Mini glossary

EZ DEMO	Feature provides an automatic demonstration of the on-screen menus on your Entertainment Machine. View and learn what features are available to you as EZ Demo cycles through the on-screen menus.

2-Tuner Picture-In-Picture Overview

PIP = Picture-In-Picture
Think of PIP as a mini TV screen superimposed onto your main TV screen
Press PIP on the remote to place the PIP inset on the screen, press PIP again to remove it

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture.

Normally you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your TV eliminates that need by giving you two tuners on one TV, on the Antenna source. PIP is always available, no matter what equipment you have.

Don't want to miss any of the big game, but hate commercials? Just put the game in the PIP inset, and Surf your favorite channels on the main picture screen.

WORKING WITH PIP

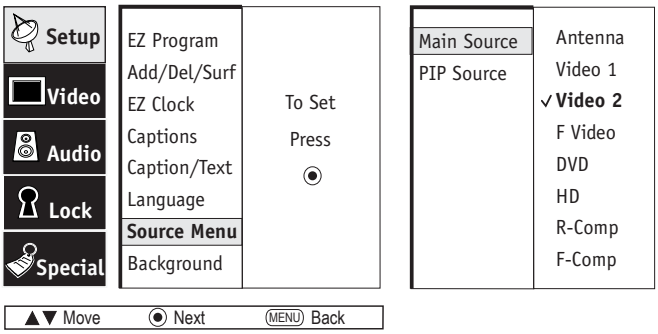
Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. Set the main screen source to Antenna, then set the PIP source to Antenna, as an example. Then if you use the TV's tuner to choose your channels, you can enjoy 2-tuner PIP; channel scan capability for both the main screen and the PIP inset.

PIP can be used in any picture mode. Put Antenna in the PIP inset while you watch a video tape, from a VCR connected to Video 1. Have a DVD disk playing on the Main screen, while you watch a videotape in the PIP inset.

SOME TYPICAL PIP/MAIN SCREEN VIEWING SETUPS

1. You want to watch a videotape, but keep scanning for another movie or game. Set the PIP source to Video 1, or 2 and you can watch the VCR and TV, swapping between the two.
2. You want to watch your favorite live program on Antenna on the main screen and when a commercial break appears, swap to the PIP inset; which has a videotape in the VCR ready to play, or Surf your favorite channels using the Antenna source for the PIP inset.

PIP Inset Picture **Main Picture**



Use the Source Menu to choose Main screen and PIP sources. *Some sources are not available for PIP and cannot be swapped from the main screen to the PIP inset. See the Source menu page for details.*

If no equipment is connected to a source you select for the PIP inset, or if it is turned off, the PIP inset will be black.

Mini glossary

TUNER	A device that picks up broadcast signals and turns them into picture and sound.
A/V SOURCE	Other equipment connected to the TV Audio/Video source inputs on the TV back or front connections panel; Video 1, Video 2 etc.

206-03807

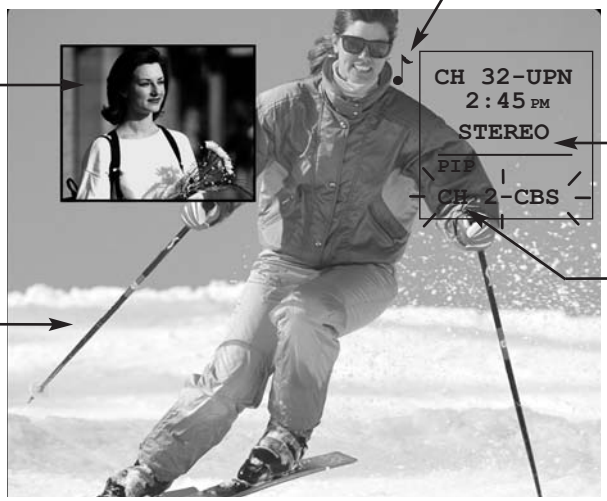
2-Tuner Picture-In-Picture Operation

Using two-tuner, Picture-in-Picture (PIP) features

PIP Inset Picture
Press PIP to turn PIP on and off.

Move PIP Around Screen
Press Right/Left arrows to move the PIP inset to the other corners of the screen.

Main Screen Picture
With PIP off, press FREEZ to place the Main screen picture in the PIP inset and "freeze" the image - turning PIP on. *(A good way to freeze the image so you can write down phone numbers etc.)*



Musical Note Symbol
Indicates if PIP or the Main screen is the sound source. (In this example the sound is from Main screen source.) To switch sound source, press QUIT repeatedly with the Channel/Time/Audio Display on-screen.

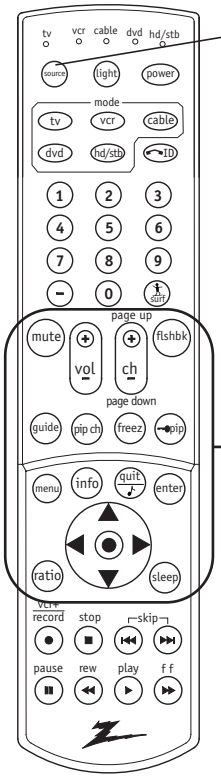
Channel/Time/Audio Source Display
Press ENTER to show display. Shows source for: Main picture, PIP, and sound source (Main or PIP).

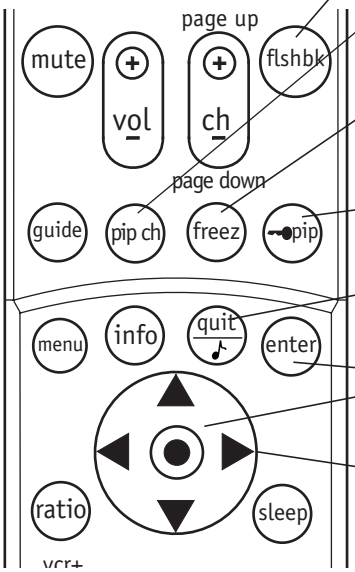
Channel Tuning Mode
Press PIP ch repeatedly to switch channel tuning between Main screen and PIP inset.
Flashing shows channel tuning mode; in this example, channel tuning is for the PIP inset. (When you press Channel Up/Down, the channels in the PIP inset change.)

PIP Inset Source
In PIP channel tuning mode, press SOURCE to change the source for the PIP inset to Antenna, Video 1, Video 2, or F Video. (Or, use the Setup Menu.)

Swap Main Picture with PIP
Use the Up/Down arrow to swap the images between the Main picture and PIP inset.

Main Picture Source
In Main picture channel tuning mode, press SOURCE to change the source to Antenna, Video 1, Video 2, or F Video. (Or, use the Setup Menu.)





SOURCE
Chooses Main picture and PIP sources.

FLASHBK (Flashback)
Returns to the last channel viewed.

PIP CH
Chooses channel tuning mode; Main screen channels or PIP channels.

FREEZ
PIP On: Freezes image in PIP inset.
PIP Off: Freezes Main screen picture in PIP inset and turns PIP on.

PIP
Turns PIP on and off.

QUIT
Chooses sound source. (With Channel/Time Display on-screen.)

Enter
Shows Channel/Time Display on Main screen.

Up/Down/Left/Right Arrows
UP/DOWN ARROWS
Swap Main and PIP sources
LEFT/RIGHT ARROWS
Move PIP inset around screen.

Setting up your TV to receive the GUIDE Plus+ GOLD system Programming Grid Guide

Overview

The GUIDE Plus+ *GOLD* system allows you to program your TV to:
Watch, TV will tune to the program automatically as it is aired. (If necessary, will turn TV on.)
Record, TV will tune cable box and/or VCR to the channel of the program and make the recording.

The feature also allows you to view on-screen the current program you are watching as well as to browse the other channels to see what else is being broadcast. Advanced features allow you additional options which are available when the Program Grid Guide is on the TV screen, like VCR Plus+ recording using the program's PlusCode programming number.

Get Information Ready for the EZ Setup

Prior to the GUIDE Plus+ *GOLD* system set up, and the VCR and Cable box tests, you will need to have handy the following information:
- Your Zip or Postal Code.
- Whether you receive programs over-the-air, or subscribe to a cable service.
- Name on your cable box, if you have one.
- Name on your VCR, if you have one.
- Cable Box output channel number.
(Usually located on the back of the cable box. If not there see your cable box owner's manual or call your cable service provider for the number.)

Write in Setup Information

(Use a pencil.)

_____ Your Zip Code

_____ Name on your Cable Box

_____ Cable Box Output Channel

_____ Name on your VCR

Signal Reception: (Check one)

___ Over-the-Air ____ Cable Service Subscriber

1

Preview GUIDE Plus+ *GOLD* Options

Go to the Special menu and highlight the GUIDE Plus+ option. Press the Right arrow on the remote. In the "What would you like to do menu", select View Demo and press ENTER/⦿ . You will see on-screen examples of the options available in the GUIDE Plus+ *GOLD* system. Once you are familiar with the options available, select Setup.

Run GUIDE Plus+ *GOLD* system Setup

With the Setup option highlighted, press ENTER/⦿ . Answer the questions with the information you wrote in the "Write in Setup Information" box above, this will be used to run the Cable Box and VCR tests.

Cable Box Setup and Test

This test determines if the TV can control your Cable Box. Follow the on-screen instructions to set up your Cable Box.

VCR Setup and Test

This test determines if the TV can control your VCR. Follow the on-screen instructions to set up your VCR.

Once the tests are complete, you can use the GUIDE Plus+ *GOLD* system to view, schedule to watch, and schedule to record, programs listed in the Program Grid Guide.

Note: Be sure emitter cable for the VCR and Cable Box are in position and connected, see page 15.

GUIDE Plus+ *GOLD* system: Overview of downloads

It is possible to download information for the GUIDE Plus+ system from the Antenna or Cable sources. To download information it is necessary to setup the GUIDE Plus+ system in the following way:

1 Get in Setup Menu

The first time setup menu is displayed automatically. The next time you need to get in the Setup menu manually. (See GUIDE Plus+ option section).
Follow the instruction in the screen.

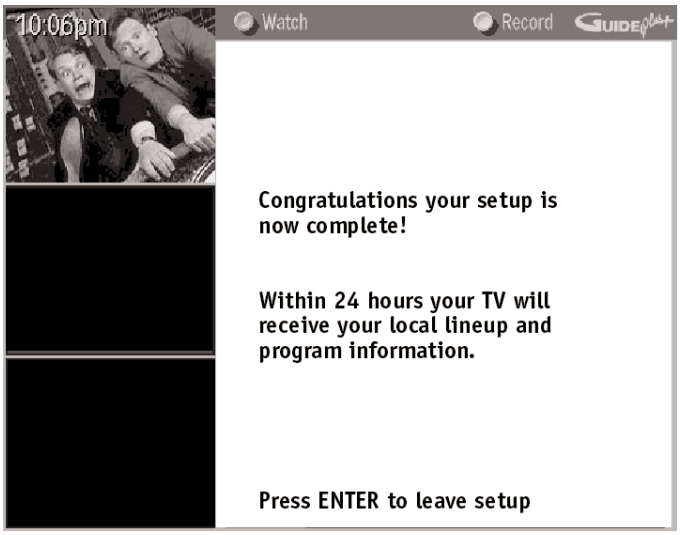

10:06pm
Watch
Record
Congratulations your setup is now complete!
Within 24 hours your TV will receive your local lineup and program information.
Press ENTER to leave setup

fig.1

1-a Downloading with an Antenna.

Follow the instructions:
"Do you have cable?" select "No"
"Do you have a cable box?" select "No"
*If you have a VCR
"Do you have a VCR?" select "Yes". Otherwise "No"

1-b Downloading with Cable.

Follow the instructions:
"Do you have cable?" select "Yes"
*If you have cable box.
"Do you have a cable box?" select "Yes". Otherwise "No"
*If you have a cable box the cable box screens configuration appears:
Select your cable box brand from a list.
Select cable box output channel: 2, 3,4
(you need to check in your cable box hardware configuration).

Note: In this configuration the Cable box must be ON and the TV OFF for the GUIDE Plus+ system to receive information.

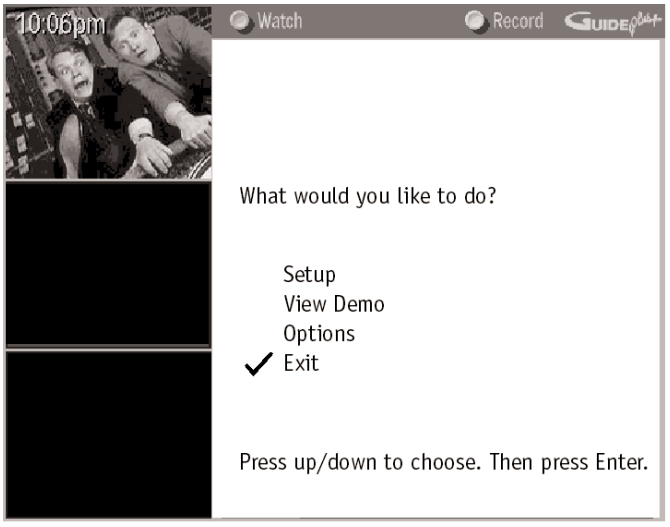


fig.2

2

Finally, the Setup Complete Screen appears. Press enter to leave the GUIDE Plus+ setup menu.

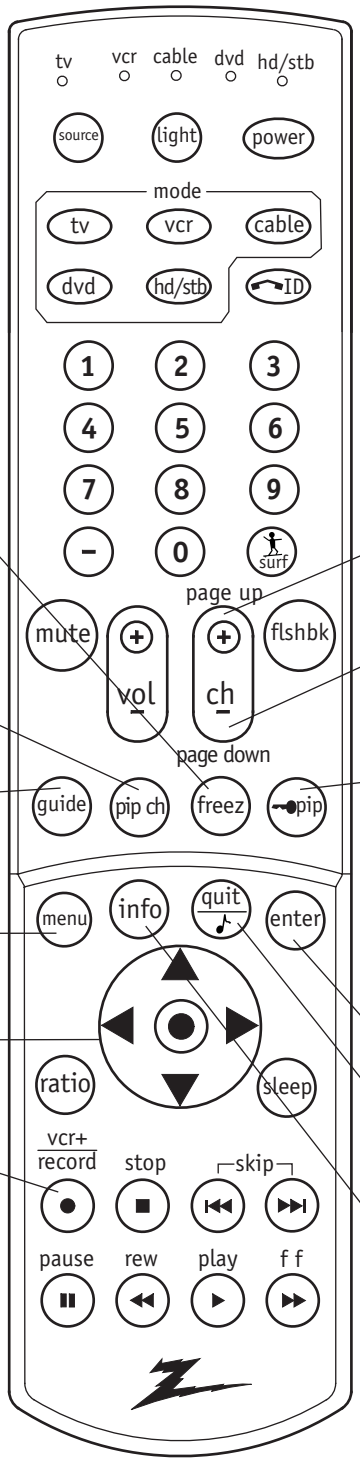
3

Select Exit option to Quit. (See fig.2)

Note: *GUIDE Plus+ listings will be available within 24 hours of setup.*

GUIDE Plus+ *GOLD* system: Remote Functions

What the remote control keys do with GUIDE Plus+ GOLD system Program Grid Guide on TV screen



FREEZ (Record action key)
One-touch recording of program selected on Grid.
Green Key, sets program up to be recorded and selects recording duration options: Once, Daily, Weekly.

PIP CH (Watch action key)
Blue Key, sets program up to be watched.

GUIDE
Enters/exits GUIDE Plus+ *GOLD* menu. Goes to selected channel on Grid on exit.

MENU
Provides direct access to the Menu bar.

Up/Down/Left/Right Arrows
Use cursor keys to move within the Program Grid.

VCR+
Enters VCR Plus+ Recording mode.

Notes: PlusCode programming numbers can be viewed by pressing INFO; when the program you want to record is highlighted in the Program Grid Guide.
PlusCode programming numbers are also usually included with program listings in your local TV guide.

Number Keypad
Enters numerical values where required.

Page UP
Moves to the next full page of information on Program Grid.

Page DOWN
Moves to the previous full page of information on Program Grid.

PIP (Lock action key
Locks/Unlocks PIP)
In PIP lock, the current TV program's picture remains as the user scrolls through the programs on the grid.

In PIP unlock, the picture changes as the user selects programs on the grid.

Enter (ENTER/ ⦿)
Goes to highlighted channel on Grid. Accepts the action.

QUIT
Exits GUIDE Plus+ *GOLD* feature and returns to the last channel viewed in TV mode.

INFO
Shows selected program's VCR PlusCode and channel lineup.

GUIDE Plus+ GOLD system: Grid Guide Layout

Explains program Grid menu features in GUIDE Plus+ mode

Current Time
Shows current time.

PIP (Picture-in-Guide)
Live video of selected program, while user is scrolling the Program Grid. Click GUIDE to place this program on TV screen and exit Grid Guide. Using PIP Lock/Unlock key, picture in window can be locked, while user scrolls other programs in Grid, or unlocked, user can see the video of the newly selected program on the Grid (assuming the program is currently being broadcast).

Current or Upcoming Program Ads
Displays Ads for current and upcoming programs. You can choose to watch or record the programs shown here. Highlight this box, then press PIP CH (Blue) to Watch, or FREEZ (Green) to Record the program.

Interactive Panel / Ads
Displays information on various subjects. If additional information is available, press left cursor arrow and it will be displayed. Press Right arrow to return to guide.

Action Bar
Watch: Automatically sets up the TV to tune to a program as it is broadcast. Press **PIP CH** (Blue) = Watch.
Record: Automatically sets up the VCR to record a program as it is broadcast. Press **FREEZ** (Green) = Record.

Info Box
With program highlighted, shows: Title of program; Gives a short description; Start time; Program duration; Channel number; Call letters of the channel; Indicates by displaying icons, if captions are present; Audio available; and Parental Control Ratings.

With a program highlighted, press **INFO** to display the program's VCR Plus+ PlusCode programming number, (if provided) and the channel's program lineup. Press **INFO** again to return to program grid.

Menu Bar
Displays services and menus (Grid options) available by first highlighting the word GRID, then pressing the right arrow to scroll through and access the additional options: Grid, Sort, News, Schedule, Messages, Editor, Setup. (See the next page for a description of the Menu Bar options.)

Program Grid
Shows listing of current programs with channel icons, including time of day to Watch or Record. Also shows last channel viewed. Channels can be turned on or off by using the Editor option located on the Menu Bar.

GUIDE Plus+ *GOLD* system: Watch/Record Menu

Schedules programs to be Watched or Recorded using the Program Grid Guide menu

Notes

- *You must first set up the GUIDE Plus+ GOLD system before you can schedule programs to be watched or recorded, see the following page.*
- *After setup: TV must be turned Off to receive GUIDE Plus+ information updates. VCR must be turned Off to be use for recording. Cable Box (if you have one) should be left On.*

1 Point remote at TV and press the TV key.

2 Press GUIDE to place Grid Guide on TV screen. (Follow on-screen instructions.)

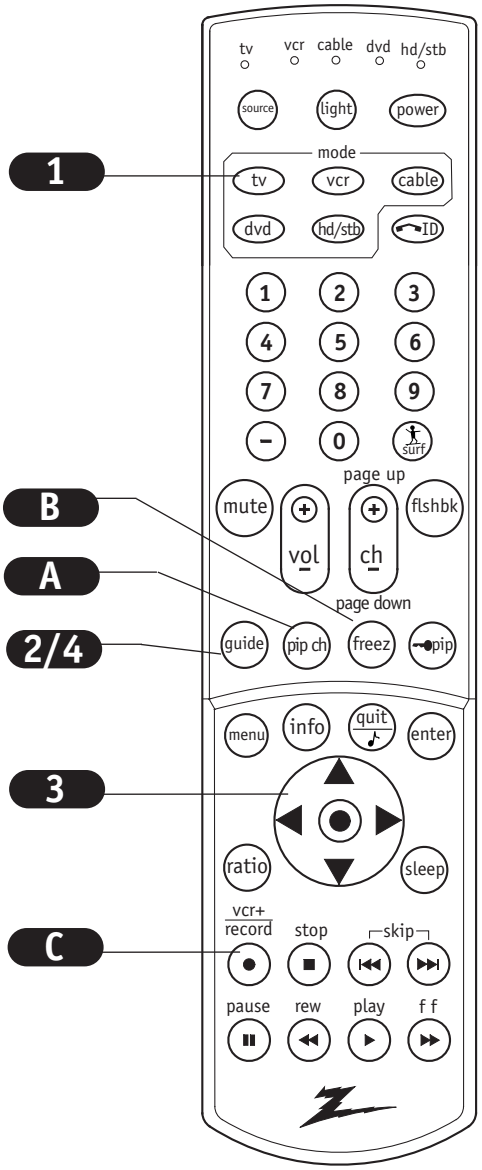
3 Use the Up/Down/Left/Right arrows to pick a program on the Grid Guide you want to watch/record.

A Watch: Press PIP CH to schedule the program to be watched. (Blue key)

B Record: Press FREEZ to schedule the program to be recorded. (Green Key)

C Press VCR+ to go to the VCR Plus+ recording menu.

4 Press GUIDE to return to TV viewing.
Note: Requires a VCR for recording.



Note: If the cable box is turned OFF, then the GUIDE Plus+ system will be unable to receive data.

Mini glossary

GRID GUIDE	Multi-day listing of the programs scheduled to be broadcast in your area.
WATCH	TV will tune to program as it is broadcast.
RECORD	Program will be recorded as it is broadcast automatically.
VCR Plus+ RECORDING	Recording using PlusCode programming numbers, usually listed with programs in Grid. Access by pressing INFO.

In the "News" menu follow the next instructions to read a "story":

1 From the story list, select the story that you wish, by using the Up/Down arrow keys. (fig.1)

2 To see the information related with the selected story, press INFO or the Right arrow. (fig.2)

3 If you want to go back to the main list or close the current story, press INFO again.

4 When watching a story, press the Left/Right arrows to change page and get additional information.
If you reach the end of the story, TV will automatically return to the list.

5 When watching a story and you want to change to another story, just press the Up/Down arrows.

6 If you are in the "main" list, you can read all titles faster if you use the Up/Down page keys.

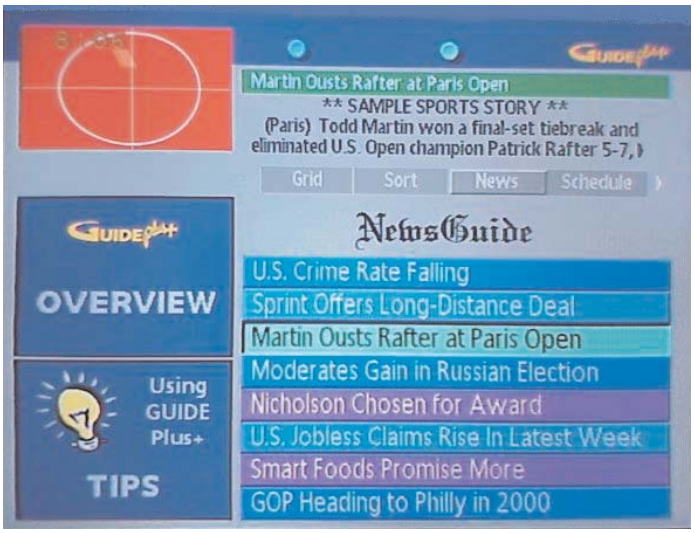

Martin Ousts Rafter at Paris Open
** SAMPLE SPORTS STORY **
(Paris) Todd Martin won a final-set tiebreak and eliminated U.S. Open champion Patrick Rafter 5-7,
Grid
Sort
News
Schedule
OVERVIEW
NewsGuide
U.S. Crime Rate Falling
Sprint Offers Long-Distance Deal
Martin Ousts Rafter at Paris Open
Moderates Gain in Russian Election
Nicholson Chosen for Award
U.S. Jobless Claims Rise In Latest Week
Smart Foods Promise More
GOP Heading to Philly in 2000
Using GUIDE Plus+
TIPS

fig.1

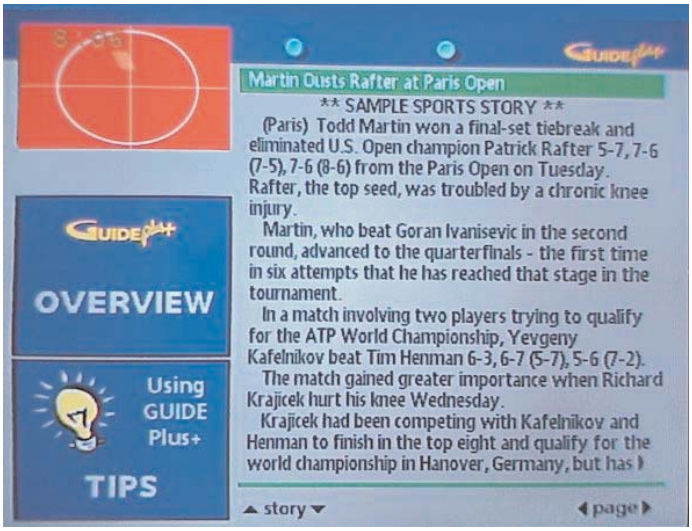

Martin Ousts Rafter at Paris Open
** SAMPLE SPORTS STORY **
(Paris) Todd Martin won a final-set tiebreak and eliminated U.S. Open champion Patrick Rafter 5-7, 7-6 (7-5), 7-6 (8-6) from the Paris Open on Tuesday.
Rafter, the top seed, was troubled by a chronic knee injury.
Martin, who beat Goran Ivanisevic in the second round, advanced to the quarterfinals - the first time in six attempts that he has reached that stage in the tournament.
In a match involving two players trying to qualify for the ATP World Championship, Yevgeny Kafelnikov beat Tim Henman 6-3, 6-7 (5-7), 5-6 (7-2).
The match gained greater importance when Richard Krajicek hurt his knee Wednesday.
Krajicek had been competing with Kafelnikov and Henman to finish in the top eight and qualify for the world championship in Hanover, Germany, but has
OVERVIEW
Using GUIDE Plus+
TIPS
story
page

fig.2

Customize and edit your GUIDE Plus+ GOLD system Program Grid menu and setup - - Troubleshoot problems

VCR Plus+ Recording
Press VCR+ RECORD to record using PlusCode programming numbers. (With a program highlighted on the grid, pressing **INFO** shows the program's PlusCode programming number, if provided.)

PIP Lock
Picture remains of original channel as other channels are selected. (Note: Press PIP to lock/unlock.)

PIP Unlock
Picture is shown of channel as it is highlighted in Program Grid Guide.

Menu Bar Option Descriptions

Grid - Displays program listings by channel and time.

Sort - Displays program listing by category for example, Sports, Movies, etc.

News - Provides access to top news stories.

See page 53. Using the News feature.

Schedule - Shows date, title, and start time of the programs that are scheduled to be watched or recorded. Also allows the user to delete any programs, and make changes to the recording schedule from Once to Daily, or Weekly.

(Select recording speed on VCR, see VCR owner's manual.)

Messages - Displays a list of messages sent to the Guide.

Editor - Displays network/channel lineup available; each channel may be turned on or off. (Will appear, or set to not appear on Program Grid.)

Setup - Use to change Guide Setup, Zip or Postal Code, Cable Box and VCR settings and also to view the GUIDE Plus+ GOLD system Overview Demo.

OPTIONS (GUIDE Plus+ Grid TV On/Off Setup)

- Each time you turn your TV on, the GUIDE Plus+ program grid display appears on the screen automatically.
- To remove GUIDE Plus+ grid, press QUIT or GUIDE.

Note: To turn off GUIDE Plus+ Grid Display at TV turn on
- Once the GUIDE Plus+ system is set up, you can change the display on/off option so that when the TV is turned on, the GUIDE Plus+ program grid display will not automatically appear. See below.

GUIDE Plus+ Program Grid Auto Display: On/Off menu.
Select:

On = When TV is turned on, GUIDE Plus+ program grid display will appear on the screen.

Off = When TV is turned on, GUIDE Plus+ program grid display will not appear on the screen.

TROUBLESHOOTING

Won't record or watch
- Setup was not performed.

No picture or sound from cable box
- Cable box must be left on, even if TV is turned Off.
- G-LINK cable not connected to G-LINK jack.

Doesn't Display Any Programs In Grid
- TV not turned off long enough for data to be received.
- Cables not connected?

Only Records In SP (Short Play)
- Set up VCR per instructions provided in owner's manual.
- Press PIP CH, FREEZ or VCR+ RECORD as needed to get watch/recording options: Once, Daily, Weekly.

Won't Tune To Selected Program
- Program may not be available or is not currently being broadcast.

Can't Find All Networks/Channels For My Local Area
- May need to use the Editor option on Menu Bar to assign missing networks/channels channel numbers and then turn those channels on.

Program your remote to control a variety of Audio/Video devices

1 The device you want to program should be ON.

2 On the Brand Code reference pages 56/57 in this manual, find the type of device you're programming and then find the brand name. Write down the three-number codes—you'll need them soon.

3 Push the key with the name of the device you're programming (VCR, CABLE, DVD, HD/STB).

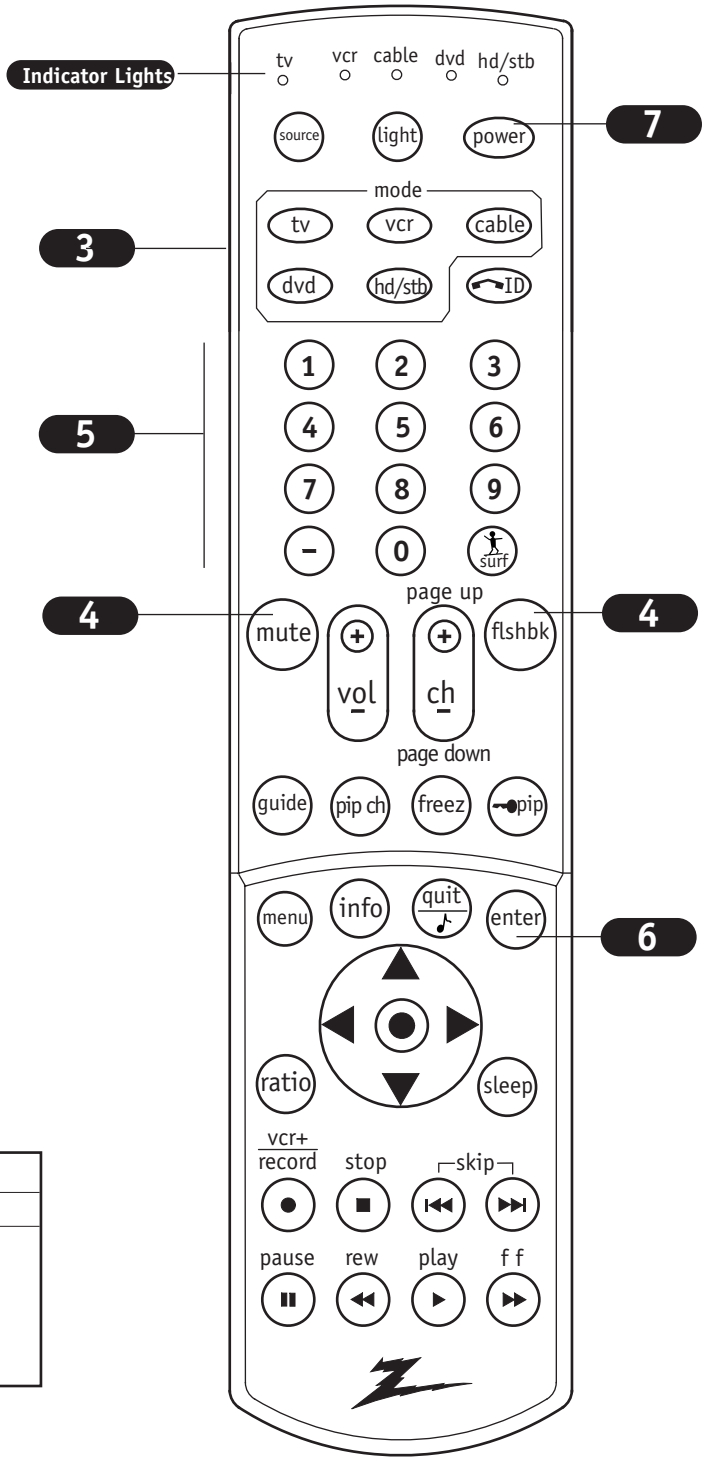
4 Hold down MUTE and FLSHBK until the indicator light turns on, then release the keys.

5 Using the NUMBER keypad, enter the three-number Brand Code found in the chart on the Brand Code reference pages 56/57.

6 Press ENTER to save the code; the indicator light will flash three times and turn off if the code was accepted.

7 Point the remote at the device and press the POWER key. The device should turn off. If not, try the other codes listed and continue from step three.

Not all devices will work with your Zenith remote control.



Mode / Product Compatibility				
TV	VCR	CABLE	DVD	HD/STB
TVs	VCRs	Cable Boxes, Satellite Receivers	Audio CD, Video Disk Audio Tape Decks Audio Tuners Audio Amplifiers	Set top Boxes

Programming Codes

TVs

Daewoo 149

Zenith 101 121 149 152

TV/VCR Combination Codes

Adventura TV/VCR . 154

Daewoo TV/VCR . . 148

Funai TV/VCR. . . . 154

Goldstar TV/VCR. . 153 172

Symphonic TV/VCR 154

Zenith TV/VCR . . . 150 152 153 154 172

VCRs

Admiral 261

Akai 292 717 718 719 720

Audio Dynamics . . 726

Bell & Howell 247

Broksonic 221 250 255 729

Candle 727

Canon 704

Capeheart 728

Citizen 727

Craig 212

Curtis Mathes . . . 259 266 725 727

Daewoo 244 246 248 254 703 729

Daytron 246

DBX 726

Electrochrome. . . . 730

Emerson 203 221 243 250 293 721 722 729 730 731 732

Fisher 211 212 213 247 265 274

General Electric . . 216 220 266 282 701 702 725

Go Video 256 262 263 700

Goldstar 253

Harmon Kardon . . . 296

Hitachi 257 270 273 292 705 706 707 708

J.C. Penny 268 726

Jensen 292

JVC 224 225 258 268 292 299 726

Kenwood 268 292 726 727

Magnavox 275

Marantz 267 268 726 727

Memorex 212 298

MGA 297 730

Mitsubishi 276 277 278 279 280 296 297 730

Montgomery Ward 216 219 249 291 730

MultiTech. 727

NEC 267 268 269 281 292 709 726

Orion 250

Panasonic 245 251 259 713 714 715 716

Pentax 708 727

Philco 275

Pioneer 210 282 726

Portland 246 727

ProScan 216 260 266 282 725

Quasar 259 295

Radio Shack 213 265 730

RCA 216 220 228 240 242 249 260 266 282 283 284 285 286 287 288 708 710 711 725

Realistic 212 213 265 730

Saisho. 722

Salora 297

Samsung 220 230

Sansui 289 292 709 726

Sanyo 212 247 294

Scott 243 290 729

Sears 211 212 213 265 274

Sharp 261 730

Signature 2000 . . . 216 219 249

Sony 232 723 724

Sylvania 275 297

Tatung 268 292

Teac 268

Teknika 272

Toshiba 213 274 290 297

Vector Research . . 726 727

Victor 726

Video Concepts . . . 726 727

XR - 1000 243

Yamaha 726

Zenith 201 224 225 229

Cable Boxes

Allegro 358 362

Allegro A-B Switch 361

Archer 325

Century 325

Citizen 325

Comtronic 326

Everquest. 379

Garrard 325

Gemini 305 331 338

General Electric. . . 367

General Instrument 304 305 306 307 308 309 310 318

Hamlin 302 303 345 365 366

Jasco 325

Jerrold 304 307 308 309 310 318 360 363

Kale Vision 335

Macom 321

Magnavox 327 334

NSC 335 339 368 369 370

Oak 311 332 342

Panasonic 313 320

Philips 325 327 347 350 352 354 355

Pioneer 315 343

RCA 341

Regency 329

Samsung 326 335

Scientific Atlanta 316 323 336 337 364

Signal 326

SL Marx. 326

Sprucer 313

Standard Comp . . . 335

Stargate 326 379

Teleview 326

Texscan 339 356 371

Tocom 317 318 346

Unika 325 348 362

Universal 325 358 362

Vid Tech 340

Video Way 349

Viewstar 327 354 355 372

Zenith HT-2000. . . 353

Zenith PM 374

Programming Codes

Satellite Receivers

Alphastar. 516
Chaparral. 501 502
Cheyenne. 502
Dishnet. 515
Drake 503
General Electric. . . 510 517
General Instrument 504 505
Hitachi 519 520
Hughes Network . . 514
JVC 518
Macom 314
Magnavox 521
Phillips 521
PrimeStar. 513
ProScan. 510 517
RCA DSS 373
RCA 510 517
Realistic 506
Sierra I 502
Sierra II 502
Sierra III 502
Sony. 511
STS1. 507
STS3. 508
Toshiba 509 512
Uniden 522
United 344
Zenith Drake. 312 330
Zenith Satellite . . 328 351 378 500

DVD Players

JVC 965
Mitsubushi. 964
Pioneer 963
Sony. 962
Toshiba 961
Zenith. 960
Pioneer 402 403
Sanyo 401
Sony 404
Zenith 401

Audio CD Players

ADC 940
ADO 939
Aiwa. 938
Akai 937
Denon 935
Dynatech. 953
Emerson 952
Fisher 438 933 951
GE 932
Goldstar 460
Hitachi 950
JVC 949 954
Kenwood 441 931 948
Luxman 930
Magnavox 421 422 433 434
Marantz. 929 947
MCS 928
Mitsubishi 927
Nakamichi 925 926
Onkyo 923 924 946
Optimus 920 921 922
Panasonic 431 432 945
Phillips 421 433 434
Pioneer 431 435 944
Quasar 432
Radio Shack 431 441
RCA 437 943
Sanyo 438 439
Sears 936
Sharp 441 442
Sherwood 449
Sony. 420 443 444 445 934
Soundesign 461 498 901 902
Sylvania 433
Teac 418 419
Technics 432
Toshiba 915
Yahama 414 941 942
Zenith 460 461 498 901 902
Zenith CD Recorder 415

Audio Tape Decks

Sony. 452

Audio Tuners/Amps

Citizen 914
GE 916
Goldstar 460 474
Hitachi 919
JVC 908
Kenwood 484
Luxman 467
Marantz. 903 913
Memorex 485
Nad 904
Nakamichi 493
Onkyo 471 906
Optimus 905
Panasonic 912
Pioneer 470 485 907
Proton 910
Quasar 912
RCA 909
Sharp 483 917 918
Sherwood 900
Sony. 486 489 490 491 492
Soundesign 461 498 901 902
Techniques. 912
Toshiba 915
Victor 908
Zenith 460 461 498 901 902

HD/Set Top Boxes

Echostar 805
Hughes 803
Philips 802
RCA 804
Sony. 801
Zenith. 800

Remote Operating Mode Key Functions

A list of key functions by mode for your remote control

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	DVD Mode Zenith Code 960	HD/STB Mode Zenith Code 800
source	TV Sources	TV Tuner or VCR Tuner	N/A	DVD Open/Close	N/A
light	Lights Keys 5 Seconds	Lights Keys 5 Sec	Lights Keys 5 Sec	Lights Keys 5 Sec	Lights Keys 5 Sec
power	TV On/Off	VCR On/Off	Cable Box On/Off	DVD On/Off	HD/STB On/Off
tv	Selects TV	Selects TV	Selects TV	Selects TV	Selects TV
vcr	Selects VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
cable	Selects Cable	Selects Cable	Selects Cable	Selects Cable	Selects Cable
dvd	Selects DVD	Selects DVD	Selects DVD	Selects DVD	Selects DVD
hd/stb	Selects HD/STB	Selects HD/STB	Selects HD/STB	Selects HD/STB	Selects HD/STB/direcTV
I.D.	TV Caller I.D.	VCR Memory	Cable Page Down	DVD Repeat A-B	HD/STB Help
1	TV Digit 1	VCR Digit 1	Cable Digit 1	DVD Digit 1	HD/STB Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	DVD Digit 2	HD/STB Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	DVD Digit 3	HD/STB Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	DVD Digit 4	HD/STB Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	DVD Digit 5	HD/STB Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	DVD Digit 6	HD/STB Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	DVD Digit 7	HD/STB Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	DVD Digit 8	HD/STB Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	DVD Digit 9	HD/STB Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	DVD Digit 0	HD/STB Digit 0
-	N/A	N/A	Cable/Satellite Dash	DVD Setup (DVD Menu)	HD/STB Dash
surf	Surf On/Off	VCR SP/EP	Cable FC/Fav Ch	DVD Audio	N/A
mute	TV Mute	TV Mute	TV Mute	TV Mute/Sound	TV Mute
volume (up)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
volume (down)	TV Volume Down	TV Volume Down	TV Volume Down	TV Volume Down	TV Volume Down
channel (up)	TV Channel Up (Guide$^+$ Page Up)	VCR Channel Up	Cable Channel Up	DVD Title	HD/STB Channel Up
channel (down)	TV Channel Down (Guide$^+$ Page Down)	VCR Channel Down	Cable Channel Down	DVD Subtitle	HD/STB Channel Down
flashbk	TV Flashback	VCR Flashback	Cable Flashback	DVD Return/TV Input	HD/STB Flashback
guide	Guide$^+$ On/Off	N/A	N/A	DVD Clear	HD/STB Guide
pip ch	TV PIP Channel Change (Guide$^+$ Blue)	VCR Eject	Day Down	DVD Marker Search	N/A
freeze	TV PIP Freeze (Guide$^+$ Green)	VCR Commercial Skip	Cable Page Up	DVD Repeat-Chap	N/A
pip Lock	TV PIP On/Off (Guide$^+$ PIP Lock/Unlock)	N/A	Day Up	DVD Marker	N/A

Remote Operating Mode Key Functions

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	DVD Mode Zenith Code 960	HD/STB Mode Zenith Code 800
menu	TV Menu	VCR Menu	Cable Menu	DVD Menu	HD/STB Menu
info	Guide+ 2nd Level Info	N/A	Cable Info	DVD Zoom	HD/STB Info
quit/(note)	Menu Quit Surround Sound On/Off PIP Audio Swap	VCR Quit	Cable Quit	DVD Resume	HD/STB Quit
enter	TV Enter	VCR Enter	Cable Enter	DVD Select	HD/STB Enter
up arrow	TV Select Up PIP Inset Swap	VCR Select Up	Cable Up Arrow	DVD Up Arrow	HD/STB Up Arrow
down arrow	TV Select Down PIP Inset Swap	VCR Select Down	Cable Down Arrow	DVD Down Arrow	HD/STB Down arrow
left arrow	TV Adjust Left PIP Inset Move	VCR Adjust Left	Cable Left Arrow	DVD Left Arrow	HD/STB Left arrow
right arrow	TV Adjust Right PIP Inset Move	VCR Adjust Right	Cable Right Arrow	DVD Right Arrow	HD/STB Right arrow
◉	TV Enter	VCR Enter	Cable Enter	DVD Select	HD/STB Enter
ratio	TV Picture Ratio	VCR Timer	Cable Timer	DVD Program	HD/STB Ratio
sleep	TV Sleep Timer	N/A	N/A	N/A	N/A
vcr+/**record**	VCR Record Guide+ VCR+	VCR Record	Cable Buy	DVD Angle	HD/STB Program
stop	VCR Stop	VCR Stop	VCR Stop	DVD Stop/Eject	VCR Stop
<< skip	DVD Skip<<	DVD Skip<<	DVD Skip<<	DVD Skip<<	DVD Skip<<
skip >>	DVD Skip>>	DVD Skip>>	DVD Skip>>	DVD Skip>>	DVD Skip>>
pause	VCR Pause	VCR Pause	Cable Guide	DVD Pause	HD/STB Signal
rew	VCR Rewind	VCR Rewind	VCR Rewind	DVD Scan <<	VCR Rewind
play	VCR Play	VCR Play	VCR Play	DVD Play	VCR Play
ff	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	DVD Scan >>	VCR Fast Forward

Reference: MBR6000T, P124-00239

Routine TV cabinet and screen cleaning

Careful and regular cleaning can extend the the useful service life of the TV. Be sure to turn the power off and pull out the plug before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off the screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before turning the TV on.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet. (Don't use any harsh, industrial strength variety of cleaner.)
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Presentation TV on.

Wood Cabinet

Use a quality wood cleaner and polish. This will protect the TV from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If you leave your TV dormant (Off) for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug the TV, you may have to reset the clock using the Clock Set menu described earlier. See page 23.

Troubleshooting

Some quick and easy tips to resolving problems

Symptoms	Possible Cause(s)	Possible Solution(s)	See page(s)
Power			
No Power.	• AC Power Cord not connected.	-Connect power cord. Try a different household outlet.	9/10/11
	• Local power failure?	-Contact power company for information.	
No Source image.	• Source turned off.	-Turn Source equipment on.	17
	• Source not selected.	-Use SOURCE to choose correct picture and sound source.	17
Picture Reception			
Poor or no picture.	• TV station problems.	-Try a different channel.	17/17
	• Video menu not adjusted properly.	-Check Video menu option settings.	32
Local interference.	• Check for disturbing source.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment; VCR to close to TV, etc.*	
	• Appliance too close to TV.	-If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.	
Poor or no color.	• Sub-standard broadcast.	-Try a different channel.	16/17
	• Sub-standard cable signal.	-Notify cable company of reception problem.	
Picture wobbles or drifts.	• CATV wire not connected or loose.	-Make or tighten connection.	7/9/11
	• Local interference.	-Try different channel. Turn off interfering appliance.	16/17
	• Scrambled CATV channel.	-Tune to unscrambled channel.	16/17
No CATV reception.	• Cable wire not connected.	-Connect cable to Antenna/Cable.	9/11
	• Cable service interrupted.	-Contact cable service.	
	• Antenna set, not Cable (CATV).	-Select Cable in EZ Program menu.	18
Images in picture distorted.	• Wrong aspect ratio.	-Use RATIO to change to correct picture proportion.	17
Poor or no sound.	• Audio muted.	-Press MUTE or VOL (Volume) + key to increase sound level.	17
	• Broadcast problem.	-Tune to a different channel.	
TV turns On.	• Wake up Alarm turned TV On.	-Cancel Wake up Alarm, and/or turn TV off.	33
TV turns Off.	• Sleep Timer turned TV Off.	-Turn TV back on.	38
No Closed Captions or Text.	• Not available on show.	-Check local TV listings to see if available on broadcast. -Relocate over-the-air antenna. -Try a different channel with Closed Captions or Text.	27
	• Not turned on.	-Pick a Closed Caption or Text option and turn Captions on.	27
Captions appear when sound is muted.	• EZ Mute selected.	-Set Captions option to off.	27
Lock (Parental Control) Problems			
Protected by Lock appears on screen.	• Viewing is restricted by Lock.	-Key-in password and turn Lock On/Off (Restrictions) off. Set individual restriction options in Lock menu to Off.	
		-Set Lock On/Off option to Off in Lock menu.	35/36
	• Don't know password.	-Tune to channel without Lock "Content" restrictions.	16/17

Some quick and easy tips to resolving problems

Symptoms	Cause(s)	Possible Solution(s)	Page(s)
Using Remote Control			
Remote does not work.	• Wrong mode selected.	-Press correct mode key to change mode (TV for TV operation.)	
	• Not aimed at remote sensor.	-Point remote at Front Control Panel.	
	• Remote too far from TV or too much light in room.	-Move remote closer to TV or darken room.	
	• IR path to TV interrupted.	-Remove obstructions.	
	• Weak batteries.	-Replace batteries.	9/10/11
	• Wrong battery polarity.	-Check that "+" and "-" match in battery compartment.	9/10/11
Remote does not operate accessory product.	• Product Mode not programmed.	-Program for other equipment: VCR, DVD, STB etc..	55
	• Product not IR controlled.	-Remote only controls IR equipment.	
Menu Operation			
Menu options can't be changed or selected.	• Software lock-up.	-Unplug power cord for 5 minutes to unlock software. (Reset clock if necessary.)	9/10/11
Timers do not work.	• "Off" selected on menu.	-Choose "On" to make timer(s) work.	37
	• Clock not set.	-Set clock.	26
Clock is set, or sets itself, to Wrong Time			
Clock time is wrong.	• Wrong Time Zone.	-Reset to your time zone.	26
	• Daylight Savings Time wrong.	-If not observed in your area, set to Off.	
	• Time does not set automatically.	-Set clock manually.	
	• Auto Clock doesn't work.	-Turn Auto Clock option "Off" in menu, set clock manually.	
Picture Viewing Problems			
Image looks wrong.	• Wrong Video Menu Aspect Ratio.	-Use correct aspect ratio for source's image: 16x9 or 4x3.	17/33
Snowy or Poor Picture	• Wrong Ant. connection/location.	-Move antenna, check connection/location. -Check cable input.	
	• TV/VCR button set wrong.	-Set TV/VCR button on your VCR correctly.	
	• Wrong tuning mode.	-Are you in TV or cable tuning mode, and should be in the other?	
	• Wrong output channels selected.	-Make sure output channels tuned on all A/V equipment are on the same channel (3 or 4).	
	• Loose connection.	-Check that all connections are tight.	
Picture has a big black box on it, but the sound is O.K.	• Caption/Text mode turned on.	-The CC (closed caption) option may be in Text 1, 2, 3, or 4 mode. -Select Caption 1, or OFF in the Caption/Text menu.	
No picture.	• AC power not plugged in?	-Plug AC power cord in.	
	• AC power outlet doesn't work.	-Check that your AC power outlet works. (Test it by plugging in something else or try another plug.)	
	• Menu options set wrong.	-Make sure brightness controls are set properly.	32
	• Broadcast problem.	-Try another channel.	16/17

Symptoms	Cause(s)	Possible Solution(s)	Page(s)
Sound/Audio Problems			
Normal picture but no sound.	• Check volume levels.	-Make sure the TV sound is not muted.	17
	• Try another channel.	-The problem may be the broadcast, not your TV.	
	• A/V cables incorrectly connected.	-Install the Audio cables correctly.	10 - 15
	• Audio Out cables installed wrong.	-Install external amplifier cables correctly.	10 - 15
	• Speakers turned off.	-Turn speakers on in the Audio menu.	34
	• No SAP signal.	-If the Audio Mode is set to SAP, the channel may not have an SAP program.	
Multi-Media Features Problems			
Caller ID Problems			
No Caller ID display.	• Phone not connected to TV.	-Connect phone to TV.	15
	• No Caller ID phone service.	-Subscribe to Caller ID, call local phone company.	
Pressing ID doesn't work.	• Wrong remote mode?	-Press TV, for TV operating mode.	17
Phone rings, no number shows on-screen.	• "Off" selected on menu.	-Choose "On" to make Caller ID work.	44
	• Caller has an unlisted number.	-Cannot display unlisted numbers.	
Computer Problems			
No Laptop/Computer image.	• Video monitor out set to internal.	-Reset computer monitor image to external.	
	• Video monitor settings wrong.	-Set computer video monitor output to 800K x 600K 60Hz.	
No Audio Mini-plug input on TV back panel.	• Mini-plug input on TV front.	-Connect equipment with mini-plug audio out to front of TV.	16
HD/DVD Problems			
Picture looks wrong.	• Wrong Video menu Aspect Ratio.	-Use correct aspect ratio for source's image: Normal, 16:9, WideScreen. Press RATIO repeatedly.	17/33
No picture or sound.	• Wrong source selected on TV.	-Select correct source equipment.	17
	• Source equipment turned off.	-Turn source equipment on.	
	• Tape or Disk not playing.	-Press "PLAY" on source equipment.	
	• Try another channel.	-The problem may be with the broadcast, not your TV.	
	• Wires incorrectly connected.	-Install wires correctly on TV and equipment.	10 - 15

If all else fails to resolve the problem, call 256-772-1515, between 7:00 am and 8:00 pm Central Standard Time.

Glossary

A list of definitions for some of the words found in this guide

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. The end looks like a hex-shaped nut with a wire sticking through the middle. It screws onto the threaded jack on the back of the TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.
A/V CABLES	Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.
A/V DEVICE	Any device that produces video or sound (VCR, DVD, cable box, or television).
ADDED	Lets you add new channels to channel scan list that you'll scroll through.
AMPLIFIER	An electronic device that amplifies sound from a television, CD player, VCR, DVD or other A/V equipment.
ANTENNA	The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.
DELETED	Lets you remove channels from the channel scan list that you'll scroll through.
EZ PROGRAM	Auto Program (channel search) automatically finds the channels available in your area.
INPUT	Refers to the jack that receives a signal from a TV, VCR or other A/V device.
JACK	An input or output connection on the back of a TV, VCR, or other A/V device.
MONO SOUND	Mono (monaural) sound is one channel of sound. With more than one speaker, all the speakers play the same audio.
OUTPUT	Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.
2ND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through a cable, or over the air, to your television screen.
STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
TUNER	Device that picks up the signal and turns it into picture and sound.

Notes

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Zenith Electronics Corporation
Direct-View TV Limited Warranty-USA

Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	**HOW SERVICE IS HANDLED:**
LABOR: 90 days from the Date of Purchase. **Parts: One year** from the Date of Purchase. **Picture Tube: Two years** from the Date of Purchase. * Parts replaced are warranted for the remaining portion of the original warranty period.	**In-Home Service:** Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided. **Please call 1-877-9Zenith (1-877-993-6484) to locate your nearest Zenith Authorized Service Center.** Replacement parts may be new or factory remanufactured.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY NATURE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH MAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

1. Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and

2. Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, reception problem caused by inadequate home antenna or faulty antenna connections, computer software, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

3. **Therefore, the cost of repair or replacement of such defective product shall be borne by the consumer.**

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For nearest Authorized Service Center, Where to buy, Product Assistance, or Customer Assistance	**Call 1-877-9Zenith (1-877-993-6484)** (Monday~ Friday 7 AM ~ 8 PM CT and Saturday 8 AM ~ 5 PM CT) and select appropriate option from the menu. Or visit our website at **http://www.zenithservice.com**

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